Annual author index

Abd-Elazem.LS. 2063 Abian.J. 1065 Ahileah S 551 Abou-Elzahab, M.M. 2271 Abril, N. 237 Abu-Shqara, E. 599 Adachi, S. 265 Adam, W. 2271 Adams, A.K. 1659 Adamson, R.H. 61 Adey, W.R. 955 Adlkofer.F. 1409 Adrian, G.S. 1537 Adrian, T.E. 1021 Afeefy,H.Y. 2063 Agarwal,R. 361,849,2641 Agarwal, S.C. 767 Ahmed A. 789 Ahotupa, M. 1225 Akagi,K. 1549 Akagi,T. 725 Akimoto.S. 743.869 Akman, S.A. 1971 Albertini, R.J. 969 Aldaz C M. 1831 Ali, A.H. 2063 Alink, G.M. 519 Alldersea, J. 563 Alworth, W.L. 1711 Amagase, H. 1627 Amanuma, T. 95 Amin,S. 1111,1545,2033 Anderson, A. 1639 Anderson, L.M. 229, 1545. 1805 1939 Anderson, M.W. 145, 154, 787, 789.795.803.811.819. 1603 Andrae U. 423 Annapurna, V.V. 493 Anttila,S. 83,1479 Apostolakos, M.J. 1181 Applegate, L.A. 761 Aquilina, G. 2097 Arai, H. 1091 Archer, M.C. 773,777,1403 Arellano, L.O. 219 Ariza,R.R. 303 Armier J. 1225 Arrigoni-Martelli, E. 2131 Asakawa, E. 525 Ashby, J. 637 Atzori, L. 975 Autelli.R. 2581 Autrup, H. 2365 Avery, L.J. 913 Aylagas, H. 941

Baan, R.A. 463, 1945
Baba, H. 1683
Baba, M. 1837, 2601
Babu, S.R. 893, 2605
Baccino, F.M. 2501, 2581
Badawi, A.F. 653
Bagnasco, M. 2185
Bailey, G.S. 629
Balani, S.K. 2233
Band, H. 827
Band, V. 827
Bannasch, P. 1857
Banning, D.P. 2457
Bansal M. P. 1895

Aze, Y. 37

Barber G. 637 Barker, J.A. 637 Barnes, D. 1821 Barrass, N.C. 1451 Barrett, J.C. 285, 579, 611 Bartsch, H. 7, 199, 1225, 1573 Baskaran K. 1705 Batra, R. 685, 1665 Battalora, M.St J. 2507 Battista, S. 2233 Bauer.B. 1789 Beach, A.C. 767 Beard, P. 2447 Beaune, P.H. 1279 Becher, R. 1125 Bechtold, W.E. 1161 Beebe.L.E. 1545 Beland P.E. 1285 Belinsky, S.A. 145, 1161, 2383 Bell, D.A. 1689, 2003 Bell, R.H.Jr 961,2189 Beltrán, L.M. 719 Bennett, S.A.L. 1289 Bennett, W. P. 833 Benton, B.K. 1209 Bereziat, J.-C. 1225 Berg, R.J.W. 103 Berger, M. 41 Bernardi, R. 2559 Bertram, J.S. 1001 Bessho, T. 1069 Beversmann, D. 107 Bhakta, M. 1537 Bhatt.T.S. 319 Bi W 675 Bianchi, L. 2569 Bianchini,F. 1677 Bierwirth, K. 2251 Bigbee, W.L. 969 Bignami, M. 435,2097 Bilchik, A.J. 1021 Biondo, R. 2097 Birnboim, H.C. 1289 Bishop, R.E. 593 Bittner, D. 2309 Bjørge, C. 1125 Blackburn, M.L. 2239 Blanck, A. 755, 2045, 2123 Blaydes, B.S. 1237 Blomeke, B. 545 Bodell, W.J. 935, 1241, 2329 Boerrigter, M.E.T.I. 2131 Boggild, M.D. 563 Bohr, V.A. 919, 1591, 1841, 2105, Boiteux,S. 2309 Bolt, M.J.G. 1175 Bond.J.A. 784,2477 Bonin, A.M. 1875 Boobis, A.R. 191,585 Boonyaphiphat, P. 275 Boosalis, M.S. 175 Boreiko, C.J. 691 Bornkamm, G.W. 1573 Boteju, L.W. 1651 Botta, E. 1101 Bouck, N.P. 1209 Boukamp, P. 833 Bouvier, G. 1573

Bowman, E.D. 545, 1053

Boyd, G.W. 1697, 1783

Braghetti, A. 2559

Braun, A.G. 29 Brayard A. 21 Bremner, J.B. 123 Broggini, M. 1963 Broly.F. 675 Bronstein.J.C. 2239 Brouet I 7 Brown, N. 947 Brubaker, L.H. 1689 Bruce, W.R. 773,777,1777 Brunborg, G. 1125 Briistle O. 1715 Bull.A.W. 2239 Bunce.O.R. 1693 Buonarati, M.H. 2517 Burak E.S. 229 Burchell, B. 2637 Bürkle, A. 559 Burnett, T.S. 1555 Busby, W.F.Jr 1871 Butler, M.A. 1689 Butler W H 1561 Caamano, J. 1789 Cabral, J.R.P. 1381 Cadet,J. 41 Cadoni, A. 2595 Cain, C.D. 955 Calaf.G. 483 Calmels,S. 7 Calvavrac.R. 1569 Cameron, R.G. 1403 Cantoreggi,S. 355 Cantu, A. 367 Canuto, R.A. 2581 Cao.E.-H. 1359 Cao. Y. Caporaso, N. 675 Carmella, S.G. 229 Carothers, A.M. 2181 Carr, P. 1053 Carta, M. 1077 Carthew, P. 1381 Casella, L. 2565 Cassingena, R. 21,1569 Castelain, P. 2397 Castonguay, A. 1603, 1639, 2383 Cattley, R.C. 2495 Cavalieri, E.L. 875 Cerutti, P. 2193 Chabot, G.G. 1279 Chacko, M.C. 493 Chan.C.C. 773 Chaney, W.G. 259, 1349, 2589 Chang, R.L. 293, 2233 Chappuis, P.O. 2447 Chasin, L.A. 2181 Chen,B. 1603 Chen,B.J. 175 Chen, F.-X. 935 Chen, G. 559 Chen, H.-J.C. 2073 Chen, J. 1049 Chen, J.-M. 1057 Chen, J.-R. 1027 Chen, L.-C. 539,713 Chen, S. 879 Cheng, R. 629 Chiang, Y. 2575

Chiao, P.J. 163

Chieco, P. 1825

Branting.C. 2239

Brasitus, T.A. 1175

Chorazv.M. 2523 Christman, J.K. 551 Christou, M. 2013 Christov, K. 2019 Chulada, P.C. 1421 Chung, F.-L. 113,749,1167, 2073 Church, K.M. 935 Clark, G.C. 1885, 2003 Clayton, R.N. 563 Colapietro, A.-M. 2289 Colburn, N.H. 1505 Coles B 567 Collecchi, P. 2595 Collins, A.R. 1733 Collins, T.J. 1875 Colovai, A.I. 1137 Columbano A. 1825 Coni.P. 1825 Conney, A.H. 293, 2233 Conti, C.J. 1831 Conze.C. 1409 Coombs. M. M. 1697, 1783 Cooney, R.V. 1555 Cooper, D.P. 653, 1981, 1991 Cooper.R. 653 Cornelison, T. 2177 Corra,S. 259 Correa,P. 1957 Cortés, F. 2543 Cortés-Vizcaíno, V. 1215 Cosma, G.N. 1729 Costelli, P. 2501 Crabtree J.E. 291 Crespi, C.L. 1421 Crofts.F. 1729 Csanády, G.A. 784 Cui, X.-S. 2627 Currie, D. 1729 Cuzick, J. 1677 D'Ambrosio, S.M. 737

D'Incalci, M. 1963 Daino.L. 1077 Daniels J.M. 1429 Dashwood, R.H. 629 Datta, A.K. 417 Davies, D.S. 191 585 Davies, M.J. 1499, 1615 Davies, R. 47 Davis, B.B. 893, 2605 Davis, C.D. 61,1389,2091 Daya-Grosjean, L. 1225, 1569 de Camargo, J.L.V. 1765 De Cian,F. 2595 De Flora,S. 2185 de Gruijl, F.R. 103 de Hazen, M. 41 De Luca, L.M. 539,713 de Waziers,I. 1279 Declos, K.B. 1863 Degawa, M. 1091 Dekant, W. 2039 Delclos, K.B. 2109 Delmolino, L. 827 Deml, E. 1229 Denda, A. 95,1771 Deng, Z. 175 Desai, D.H. 1111,2033 Desrochers, M. 1639 Detrisac, C.J. 1487 Devereux, T.R. 145,795 Devos, S. 2565

Annual author index

Dickey, C. 969 Dietrich, K. 2621 DiGiovanni, J. 319,719,1831, 2507 Dillon, C.T. 1875 Dipple, A. 1251 Diwan, B.A. 2227 Dixon, N.E. 1875 Dizdaroglu, M. 1971 Dizik.M. 551 Djordjevic, M.V. 315 Dlugosz, A.A. 205 Dobson, V.L. 1733 Doehmer.J. 2115,2365 Doenhoff, M.J. 653 Dogliotti, E. 2097 Dolan, M.E. 593,1175 Doll, M.A. 1633 Donnelly, M.J. 981 Dooley, K.L. 2143 Doroshow, J.H. 1971 Dorresteijn, A.W.C. 457 Dosanjh, M.K. 1915 Dragan, Y.P. 385,1313 Drinkwater, N.R. 1035 Driscoll, E.R. 2513 Dudeja,P. 1175 Duguid, W.P. 1027 Duke, C.C. 1041 Dunn, L.L. 593 Dunn, W. 1537 Duthie, S.J. 1733 Dutrillaux, B. 21,1569 Dybing, E. 2303 Dypbukt, J.M. 975

Eberle, G. 199, 1907 Edman, C.C. 975 Edu.D.A. 123 Edwards, R.E. 47 Edwards, R.J. 585 Egami, H. 259 Ekker,S. 361 Eklind, K.I. 1167 Ekström, T. 573 El-Bayoumy, K. 1111 Elegbede, J.A. 1221 Elespuru, R.K. 1189 Elgjo,K. 2537 Ellard,S. 2487 Elsberg,S. 11 Elson, C.E. 1221 Elwell, J.H. 1457 Elwell, M.R. 1335 Engelward, B.P. 175 Enomoto, T. 1939 Epe,B. 2271,2309 Eriksson, L.C. 755, 2627 Eritja,R. 1915 Esposito, M. 2595 Estensen, R.D. 1975 Estrade, S. 21,1569 Esumi, H. 1355 Evans, F.E. 1065 Evans, H.H. 1759 Evans, M.K. 919

Fabbri, S. 1963 Fallon, P. 653 Fang, X.-J. 669 Fardel, O. 781 Fay, L. B. 2313 Felton, J. S. 2517 Feng, P. 675 Feng, Y. 1633 Fennell, T. R. 1363 Fenoglio-Preiser, C. M. 961

Feo.F. 1077 Ferguson, R.J. 1633 Fernandes, C.L. 2441 Fernando, R.C. 407 Fischbach, M. 2565 Fischer, S.M. 411 Fischer, W.H. 1285 Fischer-Nielsen, A. 2431 Fitzgerald, D.J. 1597 Fleming, J. 335 Flodström,S. 2531 Flowers, M. 669 Foiles, P.G. 113 Foley, J.F. 795,803,811,819 Fong, A.T. 629 Ford, B. 629 Ford, G.P. 1465 Fournier, J. 41 Fox,J.G. 1957 Fox, J.G. 1957 Fox, T.R. 145 Franceschi, C. 2131 Francis, J.E. 1381 Frank, H. 599 Franke, A. 1001 Frenkel, K. 841,1195 Friesen, M.D. 199 Frost, M. 811 Fryer, A.A. 563 Fu,P.P. 1065 Fuchs, J. 469, 863 Fujii,H. 259 Fujii,J. 603 Fujiki, H. 719 Fukushima, S. 525,2277 Fukuta, H. 1683 Fulco, R.A. 2595 Fullerton, F.R. 1237 Funae, Y. 117,2471 Furihata, C. 1415 Furukawa, F. 37,607,1471 Fusamoto, H. 603

Fusenig, N. 833 Gallagher, J.E. 637 Gallinger, S. 1777 Game, S.M. 981 Ganther, H. 1895 Garrett, L.R. 329 Garte, S.J. 1729 Garza,P. 1537 Gaspa, L. 1077 Gath, I. 457 Geacintov, N.E. 1049 Gebhardt, R. 1747,2149 Gersbach, H. 2341 Ghahroudi, M.A. 2397 Ghoshal, A. 2199 Gibson, G. 1007 Gilberg,F. 2341 Giliani,S. 1101 Gilmore, K.S. 567 Gimenez-Conti, I. 573 Glancey, M.J. 1371,2303 Glatt,H. 11,599,2267 Glick, A.B. 2353 Glickman, B.W. 154,511,789 Glover, S.E. 2495 Gold.B. 935 Goldsworthy, T.L. 2137 Gombar, C.T. 229 Gonzalez, F.J. 1421 Goodell, A.L. 2289 Gooderham, N.J. 191,2457 Gopalan, P. 1469 Gordon, P.B. 2501 Gould, M.N. 1221

Gouyette, A. 1279

Gradia,S. 2419 Grafström, C. 975 Grafström, R.C. 2383 Granath, F. 705 Grant, D.M. 1633 Grasl-Kraupp, B. 1007, 2407, 2435 Gray, K. 1633 Green, J.A. 47 Greenman, D.L. 1237 Grigoras, C. 1137 Grimmer, G. 135 Groopman, J. 1203, 2205 Gross, G.A. 2313 Grube, K. 559 Grunberger, D. 2181 Grzybowska, E. 2523 Gu,J. 169 Guengerich, F.P. 784, 1271 Guignard, J. 41 Guillouzo, A. 781 Gunnarsson, P.O. 1143 Gunnett, C.A. 1693 Guo, Z. 1167 Gupta, H. 669 Gupta, K.P. 1517, 1523 Gupta, R.C. 767 Gustafsson, J.-A. 755, 1751, 2045,2123 Guttenplan, J.B. 1013, 1621, 2073 Guzman, R.C. 2019

Hadjiolov, D. 407 Hadjiolov, N. 407 Haesen,S. 2319 Hagen.I. 309 Haggerty, C.M. 919 Hakoi, K. 2359 Halliday, J.A. 511 Hällstrom, I.P. 755 Hamburger, A.W. 269 Hammock, B.D. 211 Hanausek, M. 1659 Hanigan, M.H. 1035 Hanna, P.E. 1651 Hanna, P.E. 163 Hara, Y. 1549 Hard, G.C. 2073 Häring, M. 2271 Harris, C.C. 833, 987, 1789 Harris, J.M. 567 Harris, S.R. 1693 Harrison, P. 335 Hartle, D.K. 1693 Hartwig, A. 107 Haruki, K. 1233 Harvey, R.G. 475, 599, 645, 1783 Hasegawa, A. 1233 Hasegawa, R. 2553 Hashimoto, Y. 1091 Hatayama, I. 393,537 Haugen, A. 309 Hauser, P. 2297 Hay,K. 1777 Hayashi, N. 603 Hayashi, S.-I. 1085 Hayashi, Y. 607,2389 Hayes, R.B. 675 He.L. 169 Hecht, S.S. 229, 1111, 1711, 2033,2419 Heflich, R.H. 1863, 2109 Hegi, M.E. 145,803 Hegler, J. 2309 Hei, T.K. 497, 1181

Hein, D.W. 1633

Hellmold, H. 1751 Hemming, H. 2531 Hemminki, K. 151,969,2007, 2059.2523 Henderson, C.J. 2613 Hendricks, J.D. 629 Henneman, J.R. 2227 Hennings, H. 205, 2353 Henschler, D. 2039 Henschler, R. 599 Hera,C. 303 Herbert, D.C. 1537 Herdan, J. 1137 Hergenhahn, M. 1573 Herikstad, B.V. 309 Herreno-Saenz, D. 1065 Herrington, M.K. 1021 Herrlich, P. 925 Hesterberg, T.W. 691 Hewer, A. 11,135 Higginbotham, S. 875 Higuchi, H. 2245 Hines, R.N. 1643 Hinrichsen, L.I. 1951 Hinton, D.E. 211 Hiromatsu, K. Hirose, M. 275, 525, 1265, 1415, 1549.2359 Hirosue, T. 265 Hirota, M. 259, 1349, 2589 Hirvonen, A. 85,1479 Hittelman, W.N. 163 Hneihen, A.S. 1795 Hochleitner, K. 1907 Hoey,B. 679 Hoffschir, F. 21,1569 Hokanson, J.A. 1805 Holder, G.M. 1041 Höll.T. 1715 Hollanders, V.M.H. 519 Hollingsworth, M.A. 2575 Holmberg, B. 573 Holme, J.A. 1125 Hong, W.K. 163 Hoog, T. 1537 Horiguchi, K. 95 Horikawa, K. 1933 Hoshiya, T. 1549 Hosogai, Y. 265 Hosokawa, M. 1421 Hotchkiss, J.H. 1609 Hsu, F.F. 2605 Hsu,I.C. 987 Huang, J. 2297 Huang, M.-T. 293 Huang,Q. 749 Huber, W. 1007, 2407, 2435 Hughes, N.C. 127, 135 Hukku, B. 1181 Husgafvel-Pursiainen, K. 85. 1479 Husøy, T. 73,2257

> Iatropoulos, M. J. 315 Ichikawa, T. 1133 Ichinose, M. 1415 Iishi, H. 1837, 2601 Iizasa, T. 1789 Ikenaga, M. 1057 Imai, K. 1085 Imai, T. 1765 Imaida, K. 607, 2553 Imamoto, A. 719 Imaoka, S. 117, 2471 Imazawa, T. 607 Inano, H. 2157 Inoue, H. 1683

Inoue,S. 1397 Inui,Y. 1271 Ioannides,C. 1697,1783 Ippendorf,H. 1001 Ishii-Ohba,H. 2157 Ishikawa,G. 1133 Ishikawa,T. 1261 Ito,N. 275,525,1265,1415,1549, 2359,2415,2553 Itoh,M. 2415 Iversen,O.H. 2537 Iwasaki,K. 1271 Iwata,H. 1765,2277 Iyehara-Ogawa,H. 725 Iype,P.T. 579 Izzotti,A. 2185

Jacob.J. 135 Jacob, J.R. 1609 Jacoby, R.F. 1175 Jägerstad, M. 89,2027 Jain, S.K. 603 Janot,F. 1279 Jansen, J.B.M.J. 1377 Jefcoate, C.R. 2013 Jensen, K.G. 2115,2431 Jerina, D.M. 2233 Jernström, B. 311 Jiang, H. 67 Jiang, S.-H. 1951 Jin, C.-J. 2637 Jin.E. 2019 Johansson, M. 89 Johansson, S.L. 875 Johnson, I.T. 2079 Jones, A.B. 229, 1805 Jones, C.S. 539,713 Jones, N.J. 2487 Jones, P.W. 563 Josephy, P.D. 511 Judah, D.J. 2613 Just, W. 1007

Kaderlik, K.R. 2143 Kadlubar, F.F. 1689, 2143 Kafafi, A.G. 2063 Kafafi, S.A. 2063 Kagawa, M. 275 Kaighn, M.E. 579 Kaina, B. 925 Kakei, N. 1415 Kaltenberg, O.P. 315 Kamada, T. 603 Kamataki, T. 1683, 2471 Kameyama,S. 1531 Kamolvarin, N. 1537 Kanda, H. 1061 Kane.R.E. 2605 Kanno, J. 2389 Kao, C. 2297 Kari, F. 795,803,811,819 Karjalainen, A. 85 Kasai, H. 1069 Kasprzak, K.S. 417 Kasuga, T. 2389 Kataoka, K. 743,869 Katiyar, S.K. 361,849,2641 Kato, R. 67 Kato,S. 545 Kato,T. 725,1265,2245 Katoh, F. 435 Katyal, S.L. 1579 Kaufman, D.G. 993 Kautiainen, A. 705, 2633 Kawai, K. 1531 Kawajiri, K. 1085 Kawamata, H. 1531

Kawamori, T. 1321 Kawamura,O. 1233 Kawanishi,S. 1397 Kazakoff, K.R. 1021 Keating, A. 669 Kedderis, G.L. 685, 1665 Keefer, L.K. 1251 Kelloff, G. 699, 1487, 1493 Kennelly, J.C. 637 Kensler, T.W. 567, 1971, 2423 Ketterer, B. 567 Kiehlbauch, C.C. 1435 Kim, S.-B. 2165 Kim, S.G. 1665 Kim, S.K. 311 Kim, Y.E. 1545 Kimura, H. 725, 2245 Kimura, M. 1469 Kinae, N. 1475 King, C.M. 1441 King, L.M. 1697 Kinouchi, T. 743,869 Kirby, G.M. 2613 Kirk.M.C. 195 Kirkland, J.B. 2513 Kirsch-Volders, M. 2319, 2397 Kirstein, U. 1907 Kisen, G.Ø. 2501 Kishimoto,S. 1233 Kitagawa, T. 1061 Kitamura, R. 1683, 2471 Kittrell.F.S. 25 Kleihues, P. 1471, 1715, 2119 Kleijer, W.J. 1101 Klein, J.-L. 435 Klein, K.M. 947 Klein-Szanto, A.J.P. 1789 Kleinjans, J.C.S. 347, 1297 Kleman, M.I. 2123 Klimek,F. 1857 Klus, H. 1409 Klyszcz-Nasko, H. 107 Kobayasi,S. 1765 Kodama, Y. 691 Koeman, J.H. 519 Kohn, M.C. 619 Kojima, T. 1321 Kokkinakis, D. 1621 Kokkinakis, D.M. 1705 Kokontis, J.M. 645 Kole, P.L. 2233 Komi, N. 743 Komori, M. 1683 Konishi, Y. 95 Kosakarn, P. 511 Kosanke, S.D. 1435 Kostka, K.L. 1875 Kovatch, R.M. 1189, 1545 Koya, M. 2245 Koza, R.A. 399 Kraemer, P.M. 1511 Kraus, R. 2251 Krewet, E. 245 Krishnaswamy, K. 493 Krsmanovic, L.S. 2353 Kruszewski, F.H. 2507 Kuhlmann, E. 2649 Kuiper, H.A. 519 Kumar, S. 947, 2233 Kumari, H.L. 579 Kumble, K.D. 2575 Kunitomo, K. 743 Küpper, J.-H. 559

Kupradinun, P. 663

Kurokawa, K. 1415

Kurihara, N. 903

Kuśmierek, J.T. 113 Kvinnsland,S. 887 Laconi, E. 907, 1701, 1771, 1901,2527 Lacroix.D. 1639 Lafleur, M.V.M. 1297 Lag, M. 1125 Lagomarsini, P. 1101 Lake, B.G. 1451 Lakshmi, V.M. 2605 Lambert.G.R. 767 Land, S.J. 1441 Lane, M.P. 637 Lanfear, J. 335 Langenbach, R. 1421 Lanza, A. 1759 Larden, D. 1041 Larminat,F. 1591 Larsson, P. 1 Laundon, C.H. 993 Laurén, D.J. 211 Laval,F. 1671 749 Lawson, T.A. Lay, P.A. 1875 Lechner, J. 1789 Ledda-Columbano, G.M. 1825 LeDoux, S.P. 913 Lee, G.-H. 1061 Lee, H. 645 Lee, K.B. 2177 Lee, M.-S. 1441 Lee, V.M. 1403 Lefebvre, P. 1671 Legg, R.F. 47 Lehman, T.A. 833 Lehmann, A.R. 1101 Lehmann, K. 1469 Leibold, E. 2127, 2377 Leite, L.C.C. 1289 Lévay, G. 1241, 2329 Li,D. 169,879 Li,E.E. 2109 Li, Y. 1303 Liao, D. 2045 Liem, A. 441 Liew, C.-C. 669 Lijinsky, W. 1189,2373 Lin, H.-W. 451 Lin,J.-K. 709,857 Lin,S.-J. 857 Lindroos, P. 731 Linnainmaa, K. 1597 Liu, J.-Y. 857 Liu,L. 1603 Liu, R.H. 1609 Liu, Y. 2383 Llombart-Bosch, A. 1215 Locker, J. 503 Loechler, E.L. 373 Loewenstein, W.R. 1073 Loft,S. 2115,2431 Lombardi, B. 503 Longnecker, D.S. 2649 Lotlikar, P.D. 1469 Lowry, D.T. 2353 Lu,J. 15376 Lu,L.-J.W. 1805 Lu,Y.-P. 293 Luboinski, B. 1279 Luccioni, C. 21 Lucier, G.W. 1689, 1885, 2003 Ludeke, B.I. 2119 Ludlum, D.B. 195

Lutz, W.K. 355, 1285

Lyn-Cook, B.D. 993

Lynch, A.M. 191

Mackenzie, P.I. 2637 MacLeod.M.C. 1049 MacMillan, D.L. 2423 Madrid,L. 1181 Madzak,C. 1225 Maier,P. 457 Maldve.R. 411 Malejka-Giganti, D. 341 Maltzman, T.H. 1221 Manabe, S. 899,903 Maness, S.C. 691 Manjanatha, M.G. 1863 Manson, M.M. 47, 1381 Mäntylä, E. 1225 Margison, G.P. 679, 1981, 1991 Maronpot, R.R. 787, 795, 803, 811.819.1603.2389 Marquardt, H. 11,2283 Martin, H.-D. 1001 Martin, I.G. 291 Massaad, L. 1279 Massey, T.E. 1429 Masuda, A. 1265 Masuhara, M. 1579 Mateos,S. 2543 Mathews, C. 629 Mathison, B.H. 323 Matin, M.A. 743 Matsubara, T. 2471 Matsui-Yuasa, I. 2277 Matula, T.I. 1429 Maxuitenko, Y.Y. 2423 May, A. 1591 Mayben, J.P. 993 McCann, R. 659 McCoy, Z. 2003 McCullough, P.J. 961 McDonald, T.A. 1921, 1927 McDougall, J.K. 329 McGarrity, T.J. 2335 Medina, D. 25, 1895 Medinsky, M.A. 2477 Medline, A. 777, 1777 Mehta, P.P. 1073 Mehta R.S. 1693 Melchiorri, C. 1825 Melnick, R.L. 619 Menichini, P. 1915 Mentzschel, A. 2039 Merlo,F. 2595 Metcalf, R. 833, 987, 1789 Meyer, D.J. 567 Meyer, U.A. 675 Michalopoulos, G.K. 731 Midtvedt.T. 2633 Miglietta, L.M. 113 Mihai, C. 1137 Mikalsen, S.-O. 73,251, 2085,2257 Miki, K. 1415 Mild, K.H. 573 Miller, C.R. 2003 Miller, J.A. 441 Mills.G.B. 669 Mills, K.J. 2645 Milner, J.A. 1627 Mimura, M. 1271 Minamoto, T. 1355 Miners, J.O. 2637 Minkin,S. 773 Miró-Obradors, M.-J. 941 Mirowski, M. 1659 Mirvish, S.S. 749 Mirzayans, R. 2621 Mishra,S. 269 Mitchel, R.E.J. 659 Mitchell, C.E. 1161

Mitra, S. 1537 Mitsumori, K. 37 Mittelstaedt, R.A 1863 Miura, S. 1091 Miyaki, M. 1483 Miyanishi, K. 869 Miyazawa.N. 1881 Miyoshi, E. 603 Mlcoch, J. 469,863 Modali, R. 833 Mode, A. 755 Mogaki, M. 2589 Möller, L. 53, 1343, 1723, 2627 Momiki,S. 1789 Momma,J. 1335 Monis,B. 929 Montesano, R. 1677 Moon, R.C. 1487 Mooney, L.A. 969 Moore, M.J. 399 Moorthy, B. 879 Mordan, L.J. 1555 Morel,F. 781 Mori,H. 281,1321 Mori, T. 1475, 2471 Morimoto, K. 1115 Morris, C.R. 749 Morse, M.A. 1737 Moschel, R.C. 593, 1057 Moser, G.J. 1155 Moskal, T.J. 1805 Mostafa, M.H. 653 Mucha,J. 2181 Mukhtar, H. 361,849,2641 Mukundan, M.A. 493 Müller, G. 245 Murai, T. 2277 Murata, Y. 95 Murphy, J.C. 1957 Murray, B.P. 585 Murray,S. 191,585 Musk, S.R.R. 2079 Mustonen, R. 151 Mutai, M. 1265 Muzio, G. 2581 Myers, C.R. 2051

Nagao, M. 1475, 2165, 2553 Nagaoka, H. 2165 Nakachi, K. 1085 Nakae, D. 95 Nakaizumi, A. 2601 Nakamura, T. 1261,1579 Nakanishi, Y. 1933 Nakata,T. 1881 Nakatsuru, Y. 1261 Nandi,S. 2019 Narasimhan, S. 1095 Nardo, T. 1101 Narita, T. 537 Nash, B. 1247 Neal, G.E. 2613 Negri, C. 2559 Nejjari, A. 41 Nelson, G. 1125 Nesnow,S. 767,1125 Newton, R.K. 1863 Nicolescu-Duvaz,I. 1137 Nilsson, K. 531 Nims, R.W. 2227 Nishikawa, A. 113,607,2073 Nishikawa, K. 67 Nishimura, S. 537, 1069 Niu, T. 195 Nivard.M.J.M 1585 Nomura, K. 1061 Nordén, B. 311

Norgle, J. R. 1705 Norpoth, K. 245,2251 Nouso, K. 1389 Novak, R. F. 1643,1665 Nugent, K. P. 1107 Nukaya, H. 2165

O'Connor, P.J. 653, 1561, 1981,1991 O'Farrell,F. 2457 O'Neil,I.K. 79 O'Neill,J.P. 969 Obata, H. 1233 Oberley, L.W. 1457, 1505 Oberley, T.D. 1457 Ochiai, M. 2165 Oda,H. 1261 Oda, Y. 1271 Oesch, F. 11,457,469,863 Oesterle, D. 1229 Offord, E.A. 2447 Ogasawara, H. 1579 Ogasawara, Y. 1233 Ogawa, H.I. 2245 Ogawa, K. 1415, 1765 Ohgaki, H. 1471, 2119 Ohnishi, Y. 743,869 Ohshima, H. 7 Ohta, T. 1149 Ohtake, K. 1061 Ohtsu, H. 1483 Okamoto, K. 1321 Okamoto, M. 1483 Okuda,H. 1233 Okuda, K. 1233 Okumara, A. 281 Okumura, H. 1233 Önfelt, A. 531,2115 Oreffo, V.I.C. 451 Orenstein, J.M. 429 Ortiz, T. 2543 Orton, T.C. 1451 Osada, J. 941 Otani, S. 2277 Otoshi, T. 2277 Ottman, R. 969 Otto, G. 1175 Övervik, E. 1751, 2123 Øvrebø, S. 309 Oyasu, R. 1531

Pachinger, A. 1409 Padmanabhan, R. 451 Pagano, D.A. 183 Pairojkul, C. 2415 Palacios-Alaiz, E. 941 Palmgren, B. 531 Panagakos, F. 947 Pani, P. 1701, 1771, 1901, 2527 Panneerselvam, N. 2543 Parise, O.Jr. 1279 Park, K.-K. 441 Parker, L.M. 211 Parker, R.J. 2177 Parry, E.M. 2487 Pascale, R.M. 1077, 1095 Pastink, A. 1585 Patel, V. 981 Paterson, M.C. 2621 Pathak, S. 947 Patierno, S.R. 429 Patton, N.J. 913 Paulsen, J.E. 1719, 2537 Pauly, G.T. 593 Pavone, A. 367,411 Pedrini, A.M. 1759

Peiffer, L.P. 2335

Pelin, K. 1597 Penning, T.M. 475 Perantoni, A.O. 1939 Pereira, M.A. 299 Perera.F.P. 969 Perez-Reyes, N. 329 Permert, J. 1021 Perrett, C.W. 563 Peserico.A. 1101 Peters, W.H.M. 1377 Petersen, I. 1715, 2119 Petersen, L.N. 1591 Peterson, J. 1313 Peterson, L. 2419 Petruzzelli,S. 545 Pezerat, H. 41 Pfau, W. 135 Phillips, D.H. 11,127,135 Phillips, R.K.S. 1107 Piao, C.Q. 497,1181 Piccoli, C. 1597 Pienkowska, M. 789 Pignatelli, B. 291 Pinna,G. 1077 Pintar, A. 2565 Pirajnov, G. 407 Piršel, M. 1591, 2105 Pitot,H.C. 385,1313 Plate,K.H. 1715 Platt, K.L. 469,863 Poirier, G.G. 2513 Poirier, L.A. 1237 Poirier, M.C. 1747, 2595 Polack, A. 1573 Pool-Zobel, B. 637 Popanda,O. 2341 Popovici, C. 1137 Popp,W. 245,2251 Porsch-Hällström, I. 2045,2123 Potten, C.S. 1981, 1991 Poulsen, H.E. 2115 Pour, P.M. 259, 1021, 1349, 2575,2589 Pourzand, C. 2193 Povoski, S.P. 961, 2189 Pozzi, G. 2565 Pratt, P.F. 2051 Prevost, V. 199 Price, R.J. 1451 Prieto-Alamo, M.-J. 237 Prime, S.S. 981,2171 Probert, A. 653 Prochaska, H.J. 2441 Prontera, C. 1963 Prosperi, E. 2569 Pueyo, C. 237,303 Pung, A. 1001 Putman, K.L. 1517

Qian,D. 743 Qian,G.-S. 1203 Qin,X. 1261 Qu,D.Q. 947 Quan,T. 1643 Quirke,P. 291

Radner,H. 1715 Radtke,J. 2251 Rafter,J. 2239 Rahmsdorf,H.J. 925 Rajalakshmi,S. 907,1095,1701, 1771,1901,2527 Rajewsky,M.F. 199,1907 Ramaiah,D. 2271 RamaKrishna,N.V.S. 875 Randerath,K. 79,879,1517,1523 Rani,A.S. 947 Rao, C.V. 1327, 1493, 2219 Rao, G.N. 29 Rao, P.M. 907, 1701, 1771, 1901.2527 Rappaport, S.M. 1921, 1927 Rawling, J.M. 2513 Ray, F.A. 1511 Recio.L. 1363 Reddy, B.S. 699, 1327, 1493, 2219 Reddy, M.K. 1705 Reed, E. 2177 Reed, P.I. 2547 Reichelt, K.L. 2537 Reid-Quinn, C.A. 229 Reiners, J.J.Jr 367,411 Reynolds, S.H. 2645 Reznikoff, C.A. 2297 Ribrag, V. 1279 Ricanati, M. 1759 Rice, J.M. 229, 1805, 1939, 2227 Ricotti, G.C.B.A. 1759, 2559 Ricoul, M. 21,1569 Riggs, C.W. 1545 Rinehart, C.A. 993 Ringer, D.P. 1435 Ritter, C.L. 341 Rivedal, E. 1851 Rivenson, A. 1493 Rizzino, A. 259 Robinette, C.L. 1155 Rodrigues, M.A.M. 1765 Rodriguez, H. 373 Roebuck, B.D. 2423 Roelofs, H.M.J. 1377 Rogan, E.G. 875 Rogan, E.M. 833 Rogers, A.E. 2205 Roggeband, R. 463, 1945 Roggero, E. 1951 Rojanapo, W. 663 Roldán-Arjona, T. 303 Roller, P.P. 1389 Ronai, Z.A. 2419 Rose, B. 1073 Roseng, L.E. 1851 Ross, D. 2329 Ross, J. 1125 Rossi, R. 2569 Rothman, N. 675, 1053 Routledge, M.N. 1251 Rovida, A. 2185 Rowland, I.R. 79 Roza,L. 103 Rumney, C.J. 79 Runge-Morris, M. 1643 Russfield, A. 29 Russo, J. 483 Rustan, T.D. 1633 Rutten, A.A.J.J.L. 463, 1945 Rzeszowska-Wolny, J. 2427

Rannug, A. 573

Saavedra, J. E. 1189 Sabatier, L. 1569 Sabbioni, E. 2565 Sacks, P. G. 163 Safe, S. 219 Sagripanti, J.-L. 223 Saha-Möller, C. R. 2271 Said, B. 323 Said, H. K. 2063 Sakamoto, K. 1815 Salazar, J. J. 1805 Samson, L. D. 175 Sánchez-Vegazo, I. 941 Sanner, T. 73, 251, 1851, 2257 Sano, M. 2553 Santella, R. 969 Sarasin, A. 1101, 1225, 1569 Sarma, D.S.R. 907, 1701, 1771, 1901,2527 Sasaki, Y.F. 1475 Sato, K. 393,537,1469 Savas, Ü. 2013 Savela, K. 969 Sayers, H.J. 961 Scalamogna, P. 503 Scates, D.K. 1107 Scatolini, L. 2185 Scharping, C.E. 1041 Schell, C. 245, 2251 Scherer, G. 1409 Schilderman, P.A.E.L. 347,1297 Schlepegrell,R. 107 Schlosser,P.M. 2477 Schmeiser, H.H. 407 Schmezer,P. 637 Schmutte,C. 2283 Schoket,B. 151 Schoonhoven, R. 803 Schorah, C.J. 291 Schulte-Hermann, R. 1007, 2407.2435 Schut, H.A.J. 61,1389,2091 Schwarz, L.R. 423, 1229, 2127,2377 Schwarz, M. 2267 Schwarze, P.E. 1125,2501 Scott, N. 291 Scovassi, A.I. 2559 Scully, C. 981 Seddaiu, M.A. 1077 Segerbäck, D. 2143, 2463 Seglen, P.O. 2501 Seidegård, J. 1143 Seidel, A. 11,599 Seiler, F. 1907 Seilkop, S. 29,819 Seo, H.G. 1881 Sera, N. 1933 Sewall, C.H. 1885 Shah, V. 947 Shamsuddin, A.M. 1261, 1815 Shank, R.C. 323 Sharma, R.K. 1095 Sheabar, F.Z. 1203 Sheikh, A. 907 Sheikhnejad, G. 551 Shepherd J.G. 1027 Sherman, M. 669 Sherman, U. 1659 Shi.X. 417 Shibata, M.-A. 275, 1265 Shibutani, T. 903 Shields, P.G. 545 Shigematu, N. 1933 Shih, C.-A. 709 Shimada, T. 1271 Shimoi,K. 1475 Shin, D.M. 163 Shin, H.J. 163 Shinoda, K. 607 Shinozuka.H. 1469,1579 Shiraga, T. 1271 Shirai, T. 2415, 2553 Shou, M. 475 Shoukry,S. 154 Shpitz,B. 1777 Shrestha, S.M. 1233 Shuker, D.E.G. 199,1677 Siciliano, M.J. 175 Sidhu, M.K. 947 Sierra-Rivera, E. 1457

Sies, H. 1001

Sigman, C.C. 1487 Sikka, H.C. 2233 Simi, B. 2219 Simile, M.M. 1077 Simula, T.P. 1371,2303 Singer, B. 113, 1915 Singh.J. 699 Singleton, A.M. 585 Sinha, R. 1895 Sirma, H. 1747, 2149 Sitrin, M.D. 1175 Skipper, P.L. 2313 Skog, K. 89,2027 Slaga, T.J. 573, 1831 Sly, L. 539,713,2353 Smart,R.C. 1155,2289,2645 Smeets,E.J. 347 Smith, A.G. 1381 Smith, M.L. 503 Smith, P.B. 1421 Smith, P.P. 329 Smith. T.J. 1167 Snowden, R.T. 47 Snyderwine, E.G. 61,1389,2091, 2199,2517 Sobala, G.M. 291 Söderkvist, P. 803 Søderlund, E.J. 1125, 2303 Sørbye, H. 887 Southers, J.L. 229 Spalding, J.W. 579, 1335 Speight, P.M. 2171 Spigelman, A.D. 1107 Spurr, N.K. 1821 Srivatanakul, P. 2613 Stamp, D. 773,777 Stampfer, M.R. 833 Standeven, A.M. 1795, 2137 Stanek, J. 833 Stark, A.-A. 183 Stary, A. 1225 States, J. C. 1643 Steele, V. E. 1487 Steenwinkel, M-J.S.T. 463 Stefanini, M. 1101,1759 Stegeman, J.J. 399 Stenbäck,F. 2149 Stenius,U. 159 Stephens, E.A. 1689 Stern,H.S. 1777 Stevnsner,T. 1591,1841 Stewart,B.C. 441 Stillwell, W.G. 2313 Stivala, L.A. 2569 Stoner, G.D. 1247, 1737 Stopper, H. 2271 Strange, R.C. 563 Strickland, J.E. 205 Strickland, P.T. 1053 Strömstedt, M. 1751 Sudilovsky, E.C. 1951 Sudilovsky,O. 1951 Sugie,S. 281 Sugimura, T. 1355,2165,2553 Sugiyama, M. 2171 Sugiyama, T. 117,603,1881 Sumner, S.C.J. 1363 Sun, T. 987 Sun, Y. 1457, 1505 Sundqvist, K. 2383 Suzui, M. 1321 Suzuki, H. 899,903 Suzuki, K. 1881,2157 Svanes, K. 887 Svensson, D. 755 Swanson, S.M. 2019

Swenberg, J.A. 803

Tada, A. 2165 Tainsky, M.A. 163 Taioli, E. 1729 Takahashi, M. 37,311,607,1355, 1471.2157.2389 Takahashi, S. 525, 1415, 1549, 2359 Takemoto, K. 265 Takeuchi, T. 1115 Talamantes, F. 2019 Talaska, G. 2143 Tamano,S. 2553 Tamura.K. 95 Tanaka.H. 525 Tanaka, T. 281,1321 Tanaka, Y. 2165 Tang, D.L. 969 Tang,Q. 95 Taniguchi, H. 1837 Taniguchi, N. 117,603,1881 Tannenbaum, S.R. 1957, 2313 Tano, K. 1069 Tanyakaset, M. 663 Tarone, R. 713 Tatematsu.M. 1415,1765 Tatsuta, M. 1837, 2601 Taylor, J.A. 1689 ten Hoor, F. 347, 1297 ten Vaarwerk, F.J. 1297 Tennant, B.C. 1609 Tennant, R.W. 29,1335 Tepsuwan, A. 663 Terhune, P.G. 2649 Tessitore, L. 2501, 2581 Thai, G. 367 Thamavit, W. 2415 Thielmann, H.W. 2341 Thomas, C.F. 1487 Thomas.D.L. 955 Thomas, H. 11 Thompson, C.L. 2003 Thordarson, G. 2019 Thorgeirsson, S.S. 61 Thorgeirsson, U.P. 61 Tiano, H.F. 1421 Timmermann-Trosiener, I. 2435 Timmermans, M. 2319 Timmins, G.S. 1499, 1615 Tinwell, H. 637 Tiwawech, D. 2415 Tjälve,H. 1,2383 Toftgård,R. 1723 Tokiwa, H. 1933 Tokiwa, T. 987 Tokumo, K. 1747 Tom,J. 1555 Ton, T.-V.T. 811 Toniolo, P. 1729 Topinka, J. 423 Tornaletti, S. 1759 Torndal, U.-B. 2627 Törnqvist, M. 2633 Toyoda, K. 37 Toyokuni,S. 223 Traiser, M. 457 Tricker, A.R. 1409 Tritscher, A.M. 1885 Tromvoukis, Y. 761 Trush, M.A. 1303 Trushin, N. 229 Tsai, W.Y. 969 Tsao, M.-S. 1027 Tsuchida,S. 393 Tsuji, K. 1469 Tsujiuchi, T. 95

Szeliga,J. 2523

Tsukada,S. 1415
Tsung,S.S. 645
Tsutsui,T. 611
Tsutsumi,M. 95
Tuck,P.D. 811
Tuomi,T. 1597
Turesky,R.J. 2313
Turner,M.J.Jr 1363
Turteltaub,K.W. 545,2517
Tuvesson,H. 1143
Tyrrell,R.M. 761
Uchida,T. 1233
Uehara,H. 2601
Ucki,A. 899,903
Ueno,Y. 1233

Umemura, T. 1747 Upadhyaya, P. 1111

Urlaub, G. 2181

Utesch, D. 457

Vaca, C.E. 705 Vahrenholz, C. 2251 Vainio, H. 85, 1479 Valentich, M.A. 929 Vamvakas,S. 2039 van den Berg,S. 925 van der Leun, J.C. 103 Van Goethem, F. 2397 van Golen, K.L. 1517, 1523 van Maanen, J.M.S. 347, 1297 Vanden Heuvel J.P. 2003 Vang, O. 2365 Vanhala, E. 1597 Vannozzi, M.O. 2595 Vasudevan, S. 1701, 1901, 2527 Vaughan-Johnson, J. 645 Venitt,S. 1107 Venkatraman, G. 1815 Verkoyen, C. 245 Viale, M. 2595 Vijg,J. 2131 Villani, G.R.D. 1863 Villaseñor, I.M. 123 Vishwanatha, J.K. 2575 Vivona, A.A. 1777 Vodicka, P. 1343, 2059, 2463 Vodickova, L. 2059 Vogel, E.W. 1585 Voiculetz, N. 1137 Volm, M. 1121 Volpert, O.V. 1209 Vuillaume, M. 1569

Wada,O. 899,903 Waidyanatha, S. 1921, 1927 Wainfan, E. 551 Wakabayashi, K. 1475, 2157, 2165 Walaszek, Z. 1659 Waldhör, T. 2407 Walker, M. 335 Walker, S.E. 319,719,1831 Wallin, H. 2365 Walter, C.A. 1537 Wameling, C. 11 Wang, A. 1321 Wang, B. 1465 Wang, C.Y. 1441 Wang, E. 1167 Wang, J.-J. 1359 Wang, J.-S. 1871 Wang, N.J. 169 Wang, R.-L. 1421 Wang, X. 219 Wang, X .- J. 719 Wang, Y. 1247

Annual author index

Wani, A.A. 737 Wani, G. 737 Ward, J.M. 1939 Ward, M.A. 1777 Wärngård,L. 2531 Watanabe,E. 611 Watanabe, J. 1085 Watanabe, M. 1149 Waters, R. 2487 Watt.F.M. 2171 Wattenberg, L.W. 1975 Weaker, F.J. 1537 Weghorst, C.M. 1939 Wei,H. 841,1195 Wei,J.Y. 2131 Wei,L. 841 Weiss, S.B. 645 Welsh, J.A. 833,987 Werle-Schneider, G. 2267 West, R.W. 285 Westmijze, E.J. 1297 Weston, A. 545, 1053 Wetterhahn, K.E. 1795 Widłak,P. 2427 Widłak,W. 2427 Wießler,M. 407 Wiest,J. 1689 Wiestler, O.D. 1715 Wild, C.P. 1677, 2613

Willey,J.C. 1181 Willey,J.J. 1181 Williams, G.M. 315, 1747, 2149 Willmott, L.D. 341 Wilson, G.L. 913 Wilson, R.E. 679 Winder, B. 211 Wink, D.A. 1251 Winkler, M.L. 1035 Wise, J.P. 429 Wiseman, R.W. 803 Wishnok, J.S. 1957 Witschi, H. 451 Wobbes, T. 1377 Wodrich, W. 1121 Wogan, G.N. 1203 Wolf, C.R. 1371, 1821, 2303, 2613 Wolf, R. 2251 Wolff, T. 423 Wölfle, D. 2283 Wolterbeek, A.P.M. 463, 1945 Wong, C-Q. 2233 Wongsurawat, V.J. 893 Wood, A.W. 2233 Wood, G.S. 361 Woosley, R. 675 Wu,S.-Q. 2297 Wu,Y. 7

Xu,G.P. 2547 Xu,Y. 385 Yada, H. 2359 Yamaguchi,S. 2277 Yamamoto,K. 1397 Yamamoto, S. 67,2277 Yamanouchi, H. 2157 Yamasaki,H. 435,1597 Yamazaki,H. 1271 Yang, C. 599 Yang, C.S. 1167 Yano, T. 1133 Yates, J.M. 1363 Yeleswarapu, L. 503 Yeudall, W.A. 981 Yin,S. 675 Yokoyama, Y. 393 Yonekawa, H. 1483 Yoshikawa, K. 1683 Yoshimi, N. 281 You, M. 1247, 1603 You, X. 675 Young, R.J. 1783 Young-Sciame, R. 1711 Yu,D. 195 Yu,F.-L. 1969

Wyllie, A.H. 1821

Yuspa, S.H. 205, 2353 Yusuf, A. 907 Zaidi, N.H. 1561, 1981, 1991 Zaim, M.T. 849 Zarkovic, M. 1261 Zedda, A.I. 1825 Zeiger, E. 183 Zeisel, S.H. 2205 Zeisig, M. 53, 1343, 1723 Zeller, W.J. 559 Zenser, T.V. 893, 2605 Zepik,H.H. 1 Zhang, L.-X. 1001, 1555 Zhang, X.-M. 773,777 Zhang, Y. 935 Zhang, Y.-P. 1057 Zhao, K. 191 Zhao, L. 563 Zhao, R. 1049 Zhen.W. 919 Zhong, S. 1821 Zhou, W. 961,2189 Zicca, A. 2595 Zielenska, M. 789 Zolo, P. 1077 Zuker, K.A. 1021

Zukowski, K. 1441

Yuan, W. 2181

Annual subject index

Aberrant crypt foci

colonic, initiation/promotion by 5-hydroxymethyl-2-furaldehyde in thermolyzed sucrose 773

Acetate, 12-O-tetradecanoylphorbol-13-

and mitosis of V79 cells in Chinese hamster 531 mediated co-promotion in murine skin 411 skin inflammation, protection by green tea 361

N-Acetoxy-N-acetyl-2-aminofluorene mutagenesis in human c-hprt 2245

2-Acetylaminofluorene

hepatocarcinogenesis-induced, ADP-ribose polymers in rat liver 1435

inhibition gonadectomy in liver 1747

Acetyltransferases

metabolic activation/deactivation of arylamine carcinogens 1633 Acrolein

thiol status and cytopathological effects in skin fibroblasts 975

Activated protooncogenes

in ciprofibrate-induced mouse liver tumour 145

Adduct formation

of trans-1,2-dihydro-1,2-dihydroxy-6-aminochrysene 2109

Adducts

serum albumin, MeIQx molecular dosimetry 191

Adenocarcinomas

N-nitrosobis (2-oxopropyl)amine-induced and K-ras mutations 1471

Adenomatous hyperplasias

reduction after bile reflux diversion in gastric stump 1765

ADP-ribose polymers

in rat liver during 2-acetylaminofluorene-induced hepatocarcinogenesis 1435

Aflatoxin

-albumin adducts, quantitative analysis 1203

Aflatoxin B

 -induced glutathione S-transferase hepatic foci, modulation by pretreatment 1469

-induced hepatocarcinogenesis, modulation effect of

p,p'-dichlorodiphenyltrichloroethane 663

-induced preneoplastic foci and oltipraz 2423

distribution/metabolism in marmoset monkey 1

DNA binding/mutagenicity catalyzed by rabbit lung cells 1429 metabolism *in vitro* by liver tissue from Thailand 2615

Aflatoxin M₁

in Nepalese sera quantified by immunoaffinity chromatography and immunosorbent assay 1233

African-Americans

a novel CYP1A1 gene polymorphism 1729

common slow-acetylator allele and N-acetyltransferase 1689

Albumin

-aflatoxin adducts quantitative analysis 1203 measurement of benzoquinone adducts 1927

Alimentary tissues

of hamster, GalNAc transferase activity 1349

3-Alkyladenines

immunoaffinity purification/gas chromatography mass spectrometric quantification 199

Alkylating agents

and O⁶-methylguanine-DNA methyltransferase proficient human cell line 1671

non-radioactive technique for comparison with sequence selectivity 155

O-Alkylation

DNA products, quantification by monoclonal antibodies of nuclear fluorescence 1907

7-Alkyldeoxyguanosine

adducts detection by high performance liquid chromatography and $^{32}\text{P-postlabelling }545$

Alkylnitrosoformamides

examination of alkylnitrosoformamides for carcinogenic effects 1189

O4-Alkylthymines

and mutagenic potential 1915

Allyl isothiocyanate

selective toxicity to colorectal cancer 2079

Altered hepatic foci

diethylnitrosamine dose effect on initiation 385 enhancement by pyrethroid insecticides 2531

6-Aminochrysene

cytochrome P450 activation to liver microsomes genotoxic metabolites 1271

2-Aminofluorene

partial hepatectomy and hepatic DNA adducts 2427

5-Aminosalicyclic acid

effect on 8-hydroxydeoxyguanosine in V79 cells 2431

Amosite asbestos

surface-modified carcinogenicity 2314

Analytical method

N-nitrosation in gastric juice 2547

Annexin II

expression in pancreatic cancer 2575

(+)-Anti-diol epoxide

mutational specificity of benzo[a]pyrene in supF gene of E.coli plasmid

Anticarcinogenic inducers

Phase II enzymes elevation 2441

Antimutagenic compound

from Carmona retusa leaves 123

Antioxidant enzyme

-deficient E.coli K-12 mutants and mutagenesis 237 and transformed mouse liver cells in culture 1457

Antioxidants

carcinogenesis modification in multi-organ model 2359 delay maturation affecting γ -glutamyltranspeptidase expression 47 inhibition of chrysarobin skin tumour promotion 2507

AP1 proteins

stability in keratinocyte and fibroblast cells 2447

Aphidicolin

inhibits DNA repair in human fibroblasts 2623

 1β -D-Arabinofuranosylcytosine

inhibits DNA repair in human fibroblasts 2623

Aristolochic acid

-induced forestomach carcinogenesis and diallyl sulfide 407

Aromatic amine

derivatives, hepatic acetyltransferase and metabolization 1441

Aromatic DNA adducts

seasonal variation in lymphocytes/granulocytes 2523

Aryl hydrocarbon receptor

affinities and polychlorinated biphenyls 2063

Arylalkyl isothiocyanates

butanone -4-(methylnitrosamino)-1-(3-pyridyl)-1-inhibition 1167

Arylalkynes

butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1-lung tumourigenesis inhibition 1711

Arylamine carcinogens

metabolic activation/deactivation by acetyltransferases 1633

Asbestos

cytotoxic/cytogenetic effects on human bronchial epithelial cells 691 Ascites hepatoma cells

reduced autophagic activity 2501

Ascorbate

effect on 8-hydroxydeoxyguanosine in V79 cells 2431

inhibits lead chromate clastogenesis 429

L-Ascorbic acid

administration and butylated hydroxyanisole-induced forestomach carcinogenesis 275

Ascorbic acid

gastric juice concentrations in gastric cancer family 291

Aspirin

and azoxymethane-induced colon carcinogenesis 1493

Association kinetics

of RecA protein to DNA by benzo[a]pyrene 311

Ataxia telangiectasia

phenotypic similarities to Chinese hamster mutants 2487

Autophagic activity

reduced in hepatocellular carcinoma and ascites hepatoma cells 2501

zaserine

neoplastic transformation of pancreatic duct epithelial cells 1027

Azoxymethane

-induced colon carcinogenesis, enhancement by desipramine 1837

-induced colon carcinogenesis, K-ras mutations 1777

induced colon carcinogenesis and aspirin 1493

BALB/3T3 cells

vanadium(V)-induced cytotoxicity/morphological transformation 2565

Base alkylation regiochemistry electrostatic potential for cytosine 1465

pyridine,2-amino-1-methyl-6-phenylimidazo[4,5-b] detection 899

-DNA adducts, formation by hydroquinone peroxidase activation 2329 administration and benzoquinone adducts production 1921 metabolism by liver microsomes 2477

Benzene exposure

and guanine adducts in rat urine 245

Benzidine N-glucuronidation

in dog liver 893 Benzidine-exposed workers

N-acetylation and bladder cancer 675

Benzo[a]pyrene

-DNA adducts, DNA synthesis and 32P-postlabelling analysis in hamster tracheal epithelium 463

-DNA adducts, effects of tumeric and curcumin 493

-DNA adducts formed in vitro, 32P-postlabelling analysis 1945

-induced carcinogenesis, protection by green tea 849

-induced DNA adducts in mothers, placentae and fetuses 1805

induced neoplasia, myo-inositol chemopreventive effects 1975

-initiated skin papillomas, ras mutations 2289 and dibenzo[a,l]pyrene tumourigenicity 875

association kinetics of RecA protein to DNA 311

benzo[a]pyrene,(±)-trans-7,8-dihydroxy-7,8,dihydro and mitosis 2115 diol epoxide-DNA adducts, post-mortem stability 2185

mutational specificity of (+)-anti-diol epoxide in supF gene of E.coli plasmid 373

Benzo[a]pyrene-7,8-dione

reactivity with DNA: formation of deoxyguanine adducts 475

Benzo[a]pyrene,(\pm)-trans-7,8-dihydroxy-7,8,dihydro benzo[a]pyrene and mitosis 2115

Benzo(a)pyrene,6-(deoxyguanosin-N2-yi)-3-aminoformation from 3-nitrobenzo[a]pyrene 1065

Benzo[c]phenanthrene

tumour-initiating activity of diol-epoxides 2033

Benzo[ghi]perylene

covalent binding-DNA adducts, 32P-postlabelling analysis 127

Benzoquinone adducts

measurement with hemoglobin and albumin 1927

production following benzene administration 1921

Benzotrichloride

-induced lung tumours, K-ras mutations 1247

Benzoyl peroxidase

-induced copper ion-mediated DNA base modifications 1971

Benzyl isothiocyanate

effects on DNA synthesis in rat hepatocytes 281

Benzyl thiocyanate

effects on DNA synthesis in rat hepatocytes 281

06-Benzylguanine

depletion of O6-methylguanine-DNA methyltransferase 1057

Bile

familial adenomatous polyposis patients and DNA adducts 1107

Bile duct ligation

cholangiocarcinogenesis following dimethylnitrosamine initiation 2415 Bile reflux diversion

gastric stump adenomatous hyperplasias reduction 1765

Bioactivation

of N-hydroxy-2-acetylaminofluorenes by N,O-acetyltransferase 1651

Biological activities

of intestinal microflora in mice 869

4,4'-Methylene bis(2-chloroaniline)

32P-postlabelling analysis of DNA adducts in dog 2143

N-bis(2-hydroxypropyl)nitrosamine

induced thyroid lesions 2389

Bis-dihydrodiol epoxide

-DNA adducts and dibenz[a,h]anthracene metabolic activation 863

Bladder cancer

and glutathione S-transferase mu class genetic polymorphism 1821 and N-acetylation in benzidine-exposed workers 675

invasion and metastasis, in vivo model 1531

N-butyl-N-(4-hydroxybutyl)nitrosamine-induced, chemoprevention by piroxicam 1487

Bladder carcinogenesis

sodium salts promotion in succinic acid 2277

Bleomycin genotoxicity

and poly-D-lysine in CHO cells 2543

Blood lymphocytes

effect of L-carnithine on DNA single-strand breaks 2131

Breast

cancer and glutathione S-tranferase mu class genetic polymorphism 1821

Breast epithelial cells

human, transformation by chemical carcinogens 483

Breast milk

excretion of food-derived heterocyclic amines into newborn 2199

Bronchial epithelial cells

human, cytotoxic/cytogenetic effects of asbestos 691

tumour suppressor genes, radiation-induced deletion of chromosomal regions 1181

1,3-Butadiene

metabolism, species differences 619

Butanone, 4-(methylnitrosamino)-1-(3-pyridyl)-1inhibition by arylalkyl isothiocyanates 1167

-induced Ki-ras oncogene in mouse lung tumours 2419

lung tumourigenesis inhibition by arylalkynes 1711

metabolism and macromolecular interaction in human buccal mucosa 2383

metabolism in patas monkey 229

metabolism in rat cDNA transfected kidney epithelial cells 1639

transformation of cytochrome P450 expressing transgenic cell lines 1421 tumour inhibition by selenocyanate, 1,4-phenylenebis (methylene) 1111

Butylated hydroxyanisole

induced forestomach carcinogenesis and L-ascorbic acid administration 275

carcinogenicity and prostaglandin H synthase-mediated metabolism

forestomach carcinogenesis, modification in rats 1265

oxygen radical formation during prostaglandin H synthase

biotransformation 347

Butyric acid monitor of in vivo nicotine nitrosation 1409

C-fos

overexpression and recombination frequency in human osteosarcoma cells 925

C-H-ras

codon 12 mutation in liver epithelial cell 1061

C-hprt

N-acetoxy-N-acetyl-2-aminofluorene mutagenesis 2245

C-k-ras

evaluation in pancreatic cancer from transgenic mice 2651

C22 Carotenoid

inhibits neoplastic transformation and enhances gap junctional

communication 1001

C57BL/6 mice resistant to tumour promotion by skin wounding 319

C57BL/6J mice

hepatic foci induction 1035

Calorie-restricted diets mammary tumour incidence and plasma epithelial levels in dimethylbenz[a]anthracene-treated rats 1693

DNA adducts and mutationscommentary 2007

Cancer chemoprevention

1737

Cancer prone

xeroderma pigmentosum and UV-induced mutations trichothiodystrophy cells 1255

Carbon atoms

incorporation from glucose into food mutagens 2027

α-Carbonyl derivatives

of alkylnitrosoformamides, examination of carcinogenic effects 1189

Carcinogen metabolites

glucuronidation by cDNA expressed UDP-glucoronosyltransferases 2639

Carcinogenesis

and diet in laboratory rodents 2205

modification by antioxidants in multi-organ model 2359

Carcinogenesis model

hamster, activation of S2 gene expression 163 multi-organ, effects of green tea catechins 1549

Carcinogenic effects

of α-carbonyl derivatives of alkylnitrosoformamides 1189

Carcinogenicity

of surface-modified carcinogenicity 2314 of vinyl carbamate epoxide 450

Carcinogens

in excised lung 1933

Carcinoma formation

dietary retinoic acid and skin papilloma in female SENCAR mice 539 differential effects of dietary β -carotene 713

Carmona retusa leaves

antimutagenic compound 123

L-Carnithine

effect on DNA single-strand breaks in human blood lymphocytes 2131

Catalase activity

SV40 transformation and 11p chromsome arm of human fibroblasts 1569

Catalase gene expression

and methylation in mouse liver cells 1505

Catechol

carcinogenicity in rodents glandular stomach 525

cDNA

expressed UDP-glucoronosyltransferases, glucuronidation of carcinogen metabolites 2639

mouse 3-methyladenine/7-methylguanine/3-methylguanine DNA glycosylase, cloning/characterization 175

Cell cycle

immunofluorescence assay for cyclobutyldithymine dimer quantification 103

Cell differentiation

13-hydroxyoctadecadienoic acid dehydrogenase activity 2239

Cell mutagenicity

of bay region diol epoxides of dibenz[a,h]acridine 2233

Cell proliferation

and differentiation in mammary carcinogenesis of pituitary isografted BALB/c mice 2019

and eosinophilic foci development, temporal dissociation 607 and ornithine decarboxylase in flounder liver cells 399 comparison with diethylnitrosamine initiation and phenobarbitalpromotion 299

DNA adducts and papilloma latency time following

7,12-dimethylbenz[a]anthracene/12-O-tetradecanoylphorbol-13-acetate 1285

Cell transformation

and peroxisome proliferator 611

Cell type-specific expression

of O⁶-alkylguanine-DNA alkyltransferase gene in human liver tissues

Cellular damage

by ferric nitrilotriacetate/ferric citrate 107

Cellular localization

of p53 protein in pancreatic cancer cell lines 2589

Chemical carcinogen

-induced chromatin condensation:a hypothesis 1969

Chemical carcinogens

invasive tumours from xenotransplanted cells after in vivo exposure 1789

transformation of human breast epithelial cells 483

Chemical effects

in transgenic mice bearing mammary tissue oncogenes 29

Chemical hepatocarcinogenesis

sex-dependent expression of class pi glutathione S-transferase 537

Chemoprevention

and selenium labeled proteins 1895

of N-butyl-N-(4-hydroxybutyl)nitrosamine-induced bladder cancer by piroxicam 1487

Chemopreventive agents

influence on intermediate biomarkers of colon cancer 699

Chemopreventive effects

of myo-inositol on benzo[a]pyrene-induced neoplasia 1975

Chemotherapeutic drug

effect on poly(ADP-ribosylation) in HeLa cells 2559

Chinese hamster mutants

phenotypic similarities to ataxia telangiectasia and Fanconi's anaemia cells 2487

Chinese hamster ovary cells

N-hydroxy-aminofluorene-induced mutational hot spot 2181

Chloroethylnitrosoureas

and interstrand DNA crosslinks 935

1-Chloromethylpyrene

genotoxic activity in stomach epithelium 637

CHO cells

poly-D-lysine and bleomycin genotoxicity 2543

Cholangiocarcinogenesis

by bile duct ligation following dimethylnitrosamine initiation 2415

Cholecystokinin receptor blockade

effects on pancreatic growth/tumour initiation in hamster 1021

Cholecystokinin-A

and mRNA in pancreatic carcinoma 2189

Cholecystokinin-B

and mRNA in pancreatic carcinoma 2189

Choline-deficient diet

in inbred rat strains, differential responses during liver carcinogenesis

Choline-devoid diet

p53 mutations in hepatocellular carcinomas 503

Chromatin condensation

chemical carcinogen-induced:a hypothesis 1969

Chromium(III)

binding to DNA complexes 1785

Chromium(V)

tetraamide complex-induced DNA damage in vitro 1875

Chromium(VI)

binding to DNA complexes 1785

enzymatic reduction by human hepatic microsomes 2051

Chromosomal regions

radiation-induced deletion of those containing bronchial epithelial cells

tumour suppressor genes 1181 Chromosome aberrations

and peroxisome proliferator 611

11p Chromsome arm

SV40 transformation and catalase activity of human fibroblasts 1569

Chrysarobin

skin tumour promotion inhibition by antioxidants 2507

Chrysene diol-epoxides

reverse, genotoxicity characteristics 11

Cigarette smoke

radon and oncogenic transformation 497 Ciprofibrate-induced

mouse liver tumour, activated protooncogenes 145

Diamminedichloroplatinum(II)

cis-Diammine dichloroplatinum (II)

nephrotoxicity, suppression by para-aminobenzoic acid 2597

Cisplatin

-induced lesions in human cell lines 919

sensitivity/resistance in UV repair deficient ovary cells 2177 treatment increases poly(ADP-ribosyl)ation in intact cells 559

Class pi glutathione S-transferase

sex-dependent expression during chemical hepatocarcinogenesis 537

Clastogenesis

lead chromate, inhibition by ascorbate 429

Clofibric acid

mitogenic effects in rat liver 1451

Clonal expansion

of cells, diacylglycerol and Ha-ras gene 2647

Co-carcinogenesi

of human papillomavirus 18 and nitrosomethylurea 329

Coal tar

polycyclic aromatic hydrocarbons, covalent binding-DNA 135

Codon 12

c-H-ras mutation in liver epithelial cell 1061

Colon cancer

and glutathione S-transferase mu class genetic polymorphism 1821 and intermediate biomarkers, influence of chemopreventive agents 699

and intermediate t

Colon carcinogenesis azoxymethane-induced, enhancement by desipramine 1837

azoxymethane-induced, K-ras mutations 1777

azoxymethane-induced and aspirin 1493

1,2-dimethylhydrazine-induced, effect of human diets 519

inhibition by dietary curcumin 2219

model, tumour promotion by fecapentaene-12 1261

modulating effect of dietary fat 1327

selenium and difluoromethylornithine in fibre-free diet 2335 sucrose enhancement in mice 777

Colon carcinoma cells

colon peptide inhibits growth subcutaneously transplanted into mice 1719 Colon peptide

inhibits colon carcinoma cells growth subcutaneously transplanted into mice 1719

Colon tumours

1,2-dimethylhydrazine-induced and p53 allelic loss 1483

Colorectal cancer

allyl isothiocyanate selective toxicity 2079

Compensatory regeneration

ploidy and nuclearity of rat hepatocytes 1825

Cooked food

heterocyclic amine formation 2313

Copper

levels and Mn-superoxide dismutase expression 1881 oxidation of hydroquinone and DNA damage 1303

mediated DNA base modifications, benzoyl peroxidase-induced 1971

Covalent binding

of benzo[ghi]perylene-DNA adducts 127

of coal tar polycyclic aromatic hydrocarbons-DNA 135

Cpp-17-one

metabolic activation of 11-trifluoromethyl analogue to mutagens 1697

and benzo[a]pyrene-DNA adducts 493

and 12-O-tetradecanoyl-phorbol-13-acetate-induced protein kinase C 857 and 12-O-tetradecanoylphorbol-13-acetate-induced increase in ornithine decarboxylase mRNA 293

8-hydroxydeoxyguanosine inhibition in mouse fibroblast cells 709

2-Cyanoethylene oxide

hydrolysis, species differences 685

Cyanoethylene oxide

reaction with deoxythymidine and DNA 1363

Cyclobutyldithymine dimer

immunofluorescence assay for quantification in cell cycle 103

Cycloheximide

effects on CYP1A1 gene expression induction by dioxin,2,3,7,8-tetrachlorodibenzo-p- 219

Cyclopenta-fused

genotoxic effects of polycyclic aromatic hydrocarbons 1125

Cyclopenta[c,d]pyrene-3,4-epoxide

DNA adducts and deoxynucleotides 767

4H-Cyclopenta[def]chrysen-4-ol

and sulfotransferase-mediated mutagenicity 599

Cyclosporine

hepatocyte proliferation and hepatocellular carcinomas in rats 1579

CYP1A1 expression

quantitative polymerase chain reaction in lymphocytes 2003

CYP1A1 gene

germ line polymorphisms and lung cancer 1085

CYP1A1 gene expression

induction by dioxin, 2, 3, 7, 8-tetrachlorodibenzo-p-, cycloheximide effects

CYP1A1 gene polymorphism

in African-Americans 1729

CYP1A2 content

and Glu-P-1/Trp-P-2 in liver microsomes 2471

CYP2E1 gene

Dral/Rsal polymorphism 85

Cyproterone acetate

generates DNA adducts in rat hepatocytes 423

initiation of enzyme altered foci in liver foci 1229

Cytochrome P450

activation of 6-aminochrysene to liver microsomes genotoxic metabolites 1271

and 15,16-dihydro-11-methylCPP-17-one 1783

expressing transgenic cell lines, butanone,4-(methylnitrosamino)-1-

(3-pyridyl)-1- transformation 1421

expression during hereditary hepatitis/hepatoma development 117

in mouse endometrium stromal cells 2013

in rodent lung and metabolic activation of heterocyclic amines 1751 metabolism and intercellular communication inhibition 2365

Cytochrome P4501A1

carried by transgenic Drosophila 1683

expression in DNA repair deficient/proficient human fibroblasts 1643

Cytochrome P4502C12

female predominant expression in liver nodules 755

Cytogenetic

effects of asbestos on human bronchial epithelial cells 691

Cytopathological effects

of acrolein in skin fibroblasts 975

Cytosine

electrostatic potential and base alkylation regiochemistry 1465

Cytosol

effects on N-nitroso-induced mutagenesis in Salmonella 1013

Cytotoxic

effects of asbestos on human bronchial epithelial cells 691

Cytotoxicity

vanadium(V)-induced in BALB/3T3 cells 2565

Dehydrogenase activity

of 13-hydroxyoctadecadienoic acid during cultured cell differentiation

Denitrosation

of tauromustine and related nitrosoureas by glutathione transferases 1143

Deoxyadenosine

1-methylpyrene adducts induced E.coli mutation 645

5-aza-2'-Deoxycytidine

and N-methyl-N'-nitro-N-nitrosoguanidine, inactivation of tumour suppressor function in hamster cells 285

Deoxyguanine adducts

formation:benzo[a]pyrene-7,8-dione reactivity with DNA 475

2'-Deoxyguanosine

oxidation with hydrogen peroxide in presence of nickel(II) 417

Deoxyguanosine-specific

development of monoclonal antibodies 113

Deoxynucleotides

and cyclopenta[c,d]pyrene-3,4-epoxide 767

Deoxythymidine

reaction of cyanoethylene oxide 1363

Desipramine

enhancement of azoxymethane-induced colon carcinogenesis 1837

DHFR gene

and methyl methanesulfonate 2105

Diacylglycerol

Ha-ras gene and clonal expansion of cells 2647

Diallyl sulfide

and aristolochic acid-induced forestomach carcinogenesis 407

Dibenz[a,h]acridine

cell mutagenicity of bay region diol epoxides 2233

Dibenz[a,h]anthracene

bay region diol-epoxide-DNA adducts 469

metabolic activation and bis-dihydrodiol epoxide-DNA adducts 863

Dibenzo[a,I]pyrene

tumourigenicity versus 7,12-dimethylbenz[a]anthracene and

benzo[a]pyrene 875

1,2-Dibromo-3-chloropropane

mutagenicity in glutathione S-transferases 2303 p,p'-Dichlorodiphenyltrichloroethane

modulation effect on aflatoxin B₁-induced hepatocarcinogenesis 663

and carcinogenesis in laboratory rodents 2205

Dietary β-carotene

differential effects on papilloma/carcinoma formation 713

Dietary calcium

and 1,2-dimethylhydrazine in rat colon 1175

Dietary curcumin

inhibition of colon carcinogenesis 2219

Dietary fat

-induced alterations in hepatic antioxidant functions 1225

modulating effect on ornithine decarboxylase during colon carcinogenesis 1327

Dietary macrocomponents

human risk-associated in human-flora-associated rats 79

Dietary methyl deficiency

reversibility of effects in nucleic acid methylation/gene expression in rat liver 551

Diethylnitrosamine

administration in vivo and poly(ADP-ribose) levels in rats 2513

dose effect altered hepatic foci initiation 385

initiation, ethanol enhancing effect on oesophageal tumour development 37

neoplastic conversion in rat liver 2149

Diethylnitrosamine initiation

and phenobarbital-promotion comparison with cell proliferation 299

Diethylstilbestrol

-induced kidney neoplasms and estrogen/progesterone receptors 1215 promotive effects radiation-induced mammary cells 2157

Differential effects

of dietary β-carotene on papilloma/carcinoma formation 713

Differential growth control

of Syrian hamster embryo cells in serum-free media 579

Difluoromethylornithine

selenium and colon carcinogenesis in fibre-free diet 2335 15,16-Dihydro-11-methylCPP-17-one

and cytochrome P450 1783 Dimethylbenz[a]anthracene

-treated rats, calorie-restricted diets, mammary tumour incidence and plasma epithelial levels 1693

7,12-Dimethylbenz[a]anthracene

and dibenzo[a,l]pyrene tumourigenicity 875

carcinogenicity and proto-oncogene activation in trout embryos 629 dermal application, DNA adducts cell proliferation and papilloma latency time 1285

garlic and mammary cell DNA 1627

5,6-Dimethylchrysene

tumour-initiating activity of diol-epoxides 2033

1,2-Dimethylhydrazine

-induced colon carcinogenesis, effect of human diets 519 -induced colon tumours and p53 allelic loss 1483

and dietary calcium in rat colon 1175

Dimethylnitrosamine

initiation, cholangiocarcinogenesis by bile duct ligation 2415

2,7-Dinitrofluorene

preneoplastic lesions and DNA adduct formation 2629

Diol epoxides

bay region - DNA adducts of dibenz[a,h]anthracene 469 cell mutagenicity of dibenz[a,h]acridine 2233 tumour-initiating activity of 5,6-dimethylchrysene/benzo[c]phenanthrene

Dioxin,2,3,7,8-tetrachlorodibenzo-p-

-mediated changes, epidermal growth factor receptor and hepatocarcinogenesis 1885

Dioxin,2,3,7,8-tetrachlorodibenzo-p-

induced CYP1A1 gene expression, cycloheximide effects 219 protein kinase C and inositol phosphate metabolism in rat hepatocytes 2283

Diploid fibroblasts

transformation by SV40 T antigen 1511

1.2-Dithiole-3-thione

quantitation of GSH transferase induction 567

DNA

association kinetics to RecA protein by benzo[a]pyrene 311 in upper gastrointestinal tract treated with N-methyl-N'-nitro-Nnitrosoguanidine 1981

in upper gastrointestinal tract treated with N-methyl-N'-nitro-Nnitrosoguanidine via drinking water 1991

reaction of cyanoethylene oxide 1363 riboflavin and 8-hydroxyguanine 1069

DNA adduct formation

and preneoplastic lesions of 2-nitrofluorene and 2,7-dinitrofluorene 2629 DNA adduction

species differences 61

DNA adducts

-dopamine detection:potential role in Parkinson's disease 1241

-quinoxaline,2-amino-3,8-dimethylimidazo[4,5-f] 2165

-safrole, fermation/persistence in mouse liver 1517 and cyclopenta[c,d]pyrene-3,4-epoxide 767

bay region diol-epoxide and dibenz[a,h]anthracene 469 benzo[a]pyrene, DNA synthesis and 32 P-postlabelling analysis in hamster tracheal epithelium 463

benzo[a]pyrene, effects of tumeric and curcumin 493

benzo[a]pyrene diol epoxide, post-mortem stability 2185 benzo[a]pyrene formed in vitro, ³²P-postlabelling analysis 1945

benzo[a]pyrene-induced in mothers, placentae and fetuses 1805

cell proliferation and papilloma latency time following

7,12-dimethylbenz[a]anthracene/12-O-tetradecanoylphorbol-13-acetate 1285

covalent binding-benzo[ghi]perylene, 32P-postlabelling analysis 127 formation analysed by 32P-TLC/32P-HPLC 53

formation and styrene 355

formation and O-tolyl phosphates and their metabolites 2039

formation by hydroquinone peroxidase activation 2329

from familial adenomatous polyposis patients bile 1107

heterocyclic amine, ³²P-postlabelling analysis in hepatic DNA 1389

in oral cancer patients lymphocytes 2251 in rat hepatocytes, cyproterone acetate 423

inhibition by hydroquinols and quinones 1137

7-methylguanine-smoking related 151

mutations and cancer: commentary 2007

6-nitrosochrysene-produced and molecular analysis 1863

of 4,4'-methylene bis(2-chloroaniline) in dog 2143

of malonaldehyde and hemoglobin 705

polycyclic aromatic hydrocarbons recoveries in 32P-postlabelling assay

³²P-postlabelled, optimization of high performance liquid chromatography 1343

32P-postlabelling of styrene-exposed workers 2059

DNA bas

modifications, benzoyl peroxidase-induced 1971

DNA binding

of aflatoxin B₁ catalyzed by rabbit lung cells 1429

of transcription factors by nitrogen and quinacrine mustard 1963

DNA complexes

chromium(VI)/chromium (III) binding 1785

DNA crosslinks

and chloroethylnitrosoureas 935

DNA damage

and hydroquinone oxidation by copper 1303

and 8-hydroxydeoxyguanosine formation by hydroxylamine and

4-hydroxyaminoquinoline 1-oxide 1397

and tumour promotion sensitivity in mice 841

forocoumarin hydroperoxide- and ultraviolet-induced 2271

genotoxic agent-induced in fibroblasts and proliferating cell nuclear antigen 2569

in vitro, chromium(V) tetraamide complex-induced 1875

safrole-induced, altered fidelity of T4 polynucleotide kinase 1523

DNA glycosylase

cDNA, mouse 3-methyladenine/7-methylguanine/3-methylguanine, cloning/characterization 175

DNA guanine

methylation, effect of 5-methylcytosine by N-methyl-N-nitrosourea 323

DNA methylation

of pepsinogen during glandular stomach carcinogenesis 1415

DNA methyltransferase

expression in LEC rats 603

DNA nucleotide excision repair

and methyl methanesulfonate-induced mutations in Drosophila melanogaster 1585

DNA oxidation

promoting activity of phorbol-ester type tumour promoters 1195

DNA oxidative dama

thymine glycol and thymidine glycol in urine 1359

DNA repair

deficient/proficient human fibroblasts, cytochrome P4501A1 expression

in human fibroblasts inhibition by aphidicolin/1β-D-

arabinofuranosylcytosine 2623

role of topoisomerase 1841

DNA sequences

p53 gene mutation and hepatitis B viral in human liver 987

DNA single-strand breaks

effect of L-carnithine in human blood lymphocytes 2131

DNA strand breaks

breakage in oral cancer patients lymphocytes 2251

production and ferric nitrilotriacetate related with renal tubular carcinogenesis 223

DNA synthesis

and methylene chloride inhalation exposure in hepatocytes 811

and nafenopin-inducible enzymes in rat liver foci 1007 benzo[a]pyrene-DNA adducts and ³²P-postlabelling analysis in hamster tracheal epithelium 463

effects of benzyl isothiocyanate/benzyl thiocyanate in rat hepatocytes 281 in vivo, orotic acid effect in rat hepatocytes 907

inhibition by phenobarbital and transforming growth factor β 159 peroxisomal enzyme induction in nafenopin-treated preneoplastic liver foci 2435

DNA topoisomerase

inhibitors and nucleotide excision repair 2341 inhibitors sensitivity in lymphoma strains 1759

mutagenicity with experimental model of pancreaticobiliary duct 743

Dog liver

benzidine N-glucuronidation 893

Dopamine

-DNA adducts detection:potential role in Parkinson's disease 1241

Dose dependence

of pyridine, 2-amino-1-methyl-6-phenylimidazo[4,5-b]-carcinogenicity in rats 2553

Dra

polymorphism in CYP2E1 gene/lung cancer 85

Drinking water

DNA in upper gastrointestinal tract treated with N-methyl-N'-nitro-Nnitrosoguanidine 1991

Drosophila melanogaster

DNA nucleotide excision repair and methyl methanesulfonate-induced mutations 1585

Ductal cells

metabolism/activation of pancreas specific metabolism 1705

E. coli

heterocyclic amine induced mutational specificity in LacZ gene 1149 K-12 mutants, antioxidant enzyme-deficient and mutagenesis 237 mutational specificity of methylene chloride 789

mutational specificity of quinoline, 2-nitro-3, 4-dimethylimidazo [4,5-f] in lacl gene 511

E.coli mutation

induced by 1-methylpyrene-deoxyadenosine adducts 645

E.coli plasmid

mutational specificity of benzo[a]pyrene (+)-anti-diol epoxide 373

Edible oils

effect on mutagenic heterocyclic amines 89

Electromagnetic fields

and 12-O-tetradecanoylphorbol-13-acetate in tumour promotion 955

Electrophilicity

of vinyl carbamate epoxide 450

Electrostatic potential

for cytosine and base alkylation regiochemistry 1465

Embryo cells

differential growth control in serum-free media 579

Endogenous nitrosation

by nitric oxide synthase in rat 7

Endometrial stromal cells

immortalization with temperature sensitive simian virus 40 993

Enoyl CoA hydratase

and glutathione S-transferase P expression:peroxisomal enzymes in hepatic preneoplastic lesions 393

Enzymatic phase II activation

of N-hydroxylamines by various organs 2091

Enzymatic reduction

of chromium(VI) by human hepatic microsomes 2051

Enzyme altered foci

initiation by cyproterone acetate in liver foci 1229

Enzymic detection

of oxidative base damage in lymphocyte DNA 1733

Eosinophilic foci development and cell proliferation, temporal dissociation 607

Epidermal growth factor binding

effects of phorbol esters 73 in hamster fibroblasts 2257

Enidermal growth factor receptor

dioxin,2,3,7,8-tetrachlorodibenzo-p-mediated changes and

hepatocarcinogenesis 1885

tyrosine phosphorylation modulated by exogenous phosphotyrosine 269

Epidermal pentapeptide

skin tumourigenesis enhancement by topical pretreatment 2537

Epithelial cell lines

and p53 mutations 833

Epithelial cells

rat liver nonparenchymal and sodium butyrate 457

Epstein-Barr virus

induction by two test systems 1573

Estrogen

receptors and diethylstilbestrol-induced kidney neoplasms 1215

Ethane, 1-(guan-1-yl)-2-(cystein-S-yl)

synthesis and haloethylnitrosoureas reactions 195

Ethanol

enhancing effect on oesophageal tumour development by diethylnitrosamine initiation 37

N-ethyl-N-nitrosourea

mutagenesis of H-ras codons 2193

Ethynylestradiol

protection against methyl insufficiency in methionine-choline-deficient rats 1237

Excised lung

mutagens/carcinogens 1933

Excision repair defect

trichothiodystrophy associated, genetic heterogeneity 1101

Exogenous phosphotyrosine

modulates epidermal growth factor receptor tyrosine phosphorylation 269

Familial adenomatous polyposis

patients' bile and DNA adducts 1107

Fanconi's anaemia cells

phenotypic similarities to Chinese hamster mutants 2487

Fanconi's anemia patients

lymphoblasts, increased formation of 8-hydroxydeoxyguanosine 1115

Fatty acids

effect on mutagenic heterocyclic amines 89

Fecapentaene-12

tumour promotion in colon carcinogenesis model 1261

Female mouse liver preneoplastic lesions promotion by unleaded gasoline vapor 2137

Female SENCAR mice dietary retinoic acid, skin papilloma and carcinoma formation 539

Ferrets

N-methyl-N-nitro-N'-nitrosoguanidine-induced gastric cancer 1957

Ferric citrate

cellular damage 107

Ferric nitrilotriacetate

and DNA strand breaks production related with renal tubular carcinogenesis 223

cellular damage 107

Fetuses

benzo[a]pyrene-induced DNA adducts 1805

Fibre-free diet

selenium, difluoromethylornithine and colon carcinogenesis 2335

Fibroblast

cells, AP1 proteins stability 2447

proliferating cell nuclear antigen and genotoxic agent-induced DNA damage 2569

FK506

inhibits TPA-induced tumour promotion 67

Fluoranthene

-induced lung/liver tumours in preweanling mice 1871

Food mutagens

incorporation of carbon atoms from glucose 2027

Forestomach carcinogenesis

aristolochic acid-induced and diallyl sulfide 407

butylated hydroxyanisole-induced and L-ascorbic acid administration

modification in rats 1265

Forocoumarin hydroperoxide

-induced DNA damage 2271

Foundry workers

HPRT and glycophorin A mutations 969

Free radical formation

in murine skin, organic peroxide tumour promoters 1499 in organic peroxide-treated murine keratinocytes 1615

FVB/N mice

squamous cell carcinomas chemical induction in skin 2353

β1,4-Galactosyltransferase

orotic acid effect during liver regeneration 1095

GalNAc transferase activity

in pancreatic cancers and alimentary tissues of hamster 1349

Gap junction protein gene

suppresses tumourigenicity 1073

Gap junctional communication enhanced by C22 carotenoid 1001 Gap junctional intercellular communication

and oncogene-induced changes 435

effects of phorbol esters 73

in hamster fibroblasts 2257

in Syrian hamster embryo cell colonies 2085

of malignant mesothelial cells 1597

regulation and 12-O-tetradecanoylphorbol-13-acetate 1851

Carlie

7,12-dimethylbenz[a]anthracene and mammary cell DNA 1627

Gas chromatographymass spectrometric

quantification of 3-alkyladenines 199

Gastric cancer

N-methyl-N-nitro-N'-nitrosoguanidine-induced in ferrets 1957

Gastric cancer family

gastric juice ascorbic acid concentrations 291

Gastric juice

ascorbic acid concentrations in gastric cancer family 291

N-nitrosation and an analytical method 2547

Gastric mucosa

proliferative cells, penetration of N-methyl-N'-nitro-N-nitrosoguanidine 887

Gastric stump

adenomatous hyperplasias reduction after bile reflux diversion 1765

Gene expression

reversibility of effects in rat liver by dietary methyl deficiency 551

Gene regulation

patterns during carcinogenesis encoding 56 kDa proteins 335

Gene specific repair

of cisplatin-induced lesions in human cell lines 919

Genetic heterogeneity

of trichothiodystrophy associated excision repair defect 1101

Genetic polymorphism

of glutathione S-transerase mu class and bladder, breast and colon cancer 1821

Genotoxic activity

of 1-chloromethylpyrene in stomach epithelium 637

Genotoxic agent

-induced DNA damage and proliferating cell nuclear antigen in fibroblasts 2569

Genotoxic effects

of polycyclic aromatic hydrocarbons 1125

Genotoxic metabolites

liver microsomes, cytochrome P450 activation of 6-aminochrysene 1271

Genotoxicity characteristics

of reverse chrysene diol-epoxides 11

Germ line polymorphisms

of p53 gene and CYP1A1 gene and lung cancer 1085

Glandular stomach

catechol carcinogenicity in rodents 525

carcinogenesis, DNA methylation of pepsinogen 1415 Glu-P-1

Activation in liver microsomes by CYP1A2 content 2471

Glucokinase

activity during hepatocarcinogenesis 1857

Glucose

incorporation of carbon atoms into food mutagens 2027

Glucuronidation

of carcinogen metabolites by cDNA expressed UDP-

glucoronosyltransferases 2639

γ-glutamyltranspeptidase

glutathione metabolism leads to lipid peroxidation 183 expression, antioxidants delay liver cell maturation 47

Glutathione cycle enzymes

alterations by human fibroblasts SV40-transformation 21

Glutathione metabolism

by γ-glutamyltranspeptidase leads to lipid peroxidation 183

Glutathione S-transferase

aflatoxin B₁-induced hepatic foci, modulation by pretreatment 1469

and esophageal cancer 1377

expressing S. typhimurium and mutagenic compounds 1371 isoenzyme patterns in nafenopin/phenoarbital-treated liver foci 2407 mu class, genetic polymorphism and bladder, breast and colon cancer

1821 mutagenicity of 1,2-dibromo-3-chloropropane and

tris(2,3-dibromopropyl)phosphate 2303

P and enoyl CoA hydratase expression:peroxisomal enzymes in hepatic preneoplastic lesions 393

Glutathione transferases

denitrosation of tauromustine and related nitrosoureas 1143

Glycophorin A

and HPRT mutations in foundry workers 969

Gonadectomy

inhibition of 2-acetylaminofluorene in liver 1747

Granulocytes

seasonal variation of aromatic DNA adducts 2523

Green tea

against N-nitrosodiethylamine/benzo[a]pyrene-induced carcinogenesis 849 protection against acetate, 12-O-tetradecanoylphorbol-13- skin inflammation 361

skin tumour promotion inhibition by polyphenolic fraction 2643

catechins, effects in multi-organ carcinogenesis model 1549

Growth factors

promoter-exposed hepatocytes response in type I collagen gels 731

Growth hormon

influence of sex differences at rat liver carcinogenesis initiation 2045

Growth Inhibition

/differentiation of HT-29 cells by pytic acid 1815

GSH transferase

induction, quantitation by dietary 1,2-dithiole-3-thiones 567

GSTM1 null genotype

potential risk modifier for lung squamous cell carcinoma 1479

GSTM1 0 genotype

frequency in patients with pituitary adenomas 563

Guanine adducts

and benzene exposure in rat urine 245

H-ras activation

frequency in hepatocellular tumours 1939

H-ras codons

mutagenesis by N-ethyl-N-nitrosourea 2193

Ha-ras gene

diacylglycerol and clonal expansion of cells 2647

Haemoglobin adducts

intestinal bacteria and endogenous production of reactive compound 2635

Haloethylnitrosoureas and synthesis of ethane, 1-(guan-1-yl)-2-(cystein-S-yl) 195

Hamster

carcinogenesis model, activation of S2 gene expression 163

Hamster cells

ribosomal RNA genes repair following UV irradiation 1591

Hamster embryo cells

intercellular communication and morphological transformation 251

Hamster fibroblasts

phosphatase inhibitors, gap junctional intercellular communication and epidermal growth factor binding 2257

Hamster tracheal epithelium

benzo[a]pyrene-DNA adducts, DNA synthesis and 32P-postlabelling analysis 463

HeLa cells

chemotherapeutic drug effect on poly(ADP-ribosylation) 2559

Hemoglobin

and malonaldehyde DNA adducts 705 measurement of benzoquinone adducts 1927

Hepatic acetyltransferase

and metabolization of aromatic amine derivatives 1441

Hepatic antioxidant functions

dietary fat- and phenobarbital-induced alterations 1225

Hepatic DNA

containing 8-hydroxydeoxyguanosine following peroxisome proliferator exposure 2495 ³²P-postlabelling analysis of heterocyclic amine DNA adducts 1389

Hepatic DNA adducts

partial hepatectomy and 2-aminofluorene 2427

Henatic foci

aflatoxin B₁-induced glutathione S-transferase, modulation by

pretreatment 1469

induction in C57BL/6J mice 1035 nodules and orotic acid long-term feeding 1901

Hepatic metabolism

of 8-methylqinoline and 6-methylquinoline 1041

Hepatic neoplasia

enhancement by iron hexachlorobenzene 1381

Hepatic preneoplastic lesions

and peroxisomal enzymes: glutathione S-transferase P and enoyl CoA hydratase expression 393

Hepatic tumours

of rainbow trout, biochemical/histochemical properties 211

Hepatitis

hereditary development, cytochrome P450 expression 117

Hepatitis B

and p53 gene mutation viral DNA sequences in human liver 987

Hepatocarcinogenesis

2-acetylaminofluorene-induced, ADP-ribose polymers in rat liver 1435 aflatoxin B1-induced, modulation effect of

p,p'-dichlorodiphenyltrichloroethane 663

development of hydroxysteroid sulfotransferase-deficient lesions 2267 dioxin,2,3,7,8-tetrachlorodibenzo-p-mediated changes and epidermal growth factor receptor 1885

glucokinase/hexokinase activity 1857

initiation by hepatocyte heterogeneity 1403

micronuclei in parenchymal liver cells 2397

N-nitrosomorpholine-induced somatostatin inhibition 2603

Hepatocellular carcinoma

and cyclosporine in rats 1579

development in orotic acid-exposed 2527

human p53 gene aberration in China 169

reduced autophagic activity 2501

p53 mutations induced by choline-devoid diet 503

Hepatocellular tumours

frequency of H-ras activation 1939

Hepatocyte cell line

v-raf oncogene in rat 669

Hepatocyte cultures

intercellular communication inhibition by tumour promoters 2377

Hepatocyte heterogeneity

and hepatocarcinogenesis initiation 1403

Hepatocyte phenotypes

comparison in Sprague-Dawley and Nagase analbuminemic rats 1313

Hepatocyte proliferation

and cyclosporine in rats 1579

Hepatocytes

in primary culture, P-glycoprotein expression 781

methylene chloride inhalation exposure and DNA synthesis 811

Henatoma

hereditary development, cytochrome P450 expression 117

Heterocyclic amine

-induced mutational specificity in E.coli LacZ gene 1149

DNA adducts, 32P-postlabelling analysis in hepatic DNA 1389

formation in cooked food 2313

Heterocyclic amines

effect of edible oils/fatty acids 89 food-derived, excretion into breast milk of newborn 2199

metabolic activation and rodent lung cytochrome P450 1751

Hexachlorobenzene

iron enhancement of hepatic neoplasia 1381

Hexokinase

activity during hepatocarcinogenesis 1857

High fat diet

effects on pancreatic growth/tumour initiation in hamster 1021

High performance liquid chromatography

detection of 7-alkyldeoxyguanosine adducts 545

for analyses of 32P-postlabelled DNA adducts 1343

32P-HPLC

analysis of DNA adduct formation 53

HPLC methods

for detecting adducts in modified DNA 1049

and glycophorin A mutations in foundry workers 969

hprt gene

N-methyl-N-nitrosourea mutation specificity in cDNA 725

6-nitrosochrysene-produced and molecular analysis 1863

HT-29 cells

growth inhibition/differentiation by pytic acid 1815

Human buccal mucosa

metabolism and macromolecular interaction of

butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1-2383

Human cell line

O6-methylguanine-DNA methyltransferase and alkylating agents

Human diets

effect on 1,2-dimethylhydrazine-induced colon carcinogenesis 519

Human fibroblasts

DNA repair deficient/proficient, cytochrome P4501A1 expression

DNA repair inhibition by aphidicolin/1β-D-arabinofuranosylcytosine 2623

glutathione cycle enzymes alterations by SV40-transformation 21

SV40 transformation, catalase activity and 11p chromsome arm 1569

Human heme oxygenase gene

and transcriptional activity 761

Human hepatic content

correlates with mutagenic activation of PhIP 585

Human hepatic microsomes

chromium(VI) enzymatic reduction 2051

Human liver

p53 gene mutation and hepatitis B viral DNA sequences 987

Human liver tissues

O6-alkylguanine-DNA alkyltransferase gene cell type-specific expression

Human papillomavirus 18

co-carcinogenesis with nitrosomethylurea 329

Human-flora-associated rats

risk-associated human dietary macrocomponents 79

Hydrogen peroxide

2'-deoxyguanosine oxidation in presence of nickel(II) 417

Hydrolysis

of 2-cyanoethylene oxide, species differences 685

Hydroquinols

inhibition of DNA adduct formation 1137

Hydroquinone

oxidation by copper and DNA damage 1303

peroxidase activation, formation of benzene-DNA adducts 2329

8-Hydroxy-2'-deoxyguanosine

in liver DNA in iron-deficient or mangenese- and copper-deficient rats

N-Hydroxy-aminofluorene

-induced mutational hot spot in Chinese hamster ovary cells 2181

4-Hydroxyaminoquinoline 1-oxide

DNA damage and 8-hydroxydeoxyguanosine formation 1397

8-Hydroxydeoxyguanosine

ascorbate/5-aminosalicyclic acid effect in V79 cells 2431 formation by hydroxylamine and 4-hydroxyaminoquinoline 1-oxide 1397

in hepatic DNA following peroxisome proliferator exposure 2495 increased formation in Fanconi's anemia patients lymphoblasts 1115 inhibition by curcumin in mouse fibroblast cells 709

8-Hydroxyguanine

and riboflavin in DNA 1069

Hydroxylamine

DNA damage and 8-hydroxydeoxyguanosine formation 1397

N-Hydroxylamines

enzymatic phase II activation by various organs 2091

5-Hydroxymethyl-2-furaldehyde

in thermolyzed sucrose, initiation/promotion of colonic aberrant crypt foci 773

1-Hydroxymethylpyrene

and sulfotransferase-mediated mutagenicity 599

Hydroxynonanal,2,3-epoxy-4-

tumour initiating potential to lipid peroxidation 2073

13-hydroxyoctadecadienoic acid

dehydrogenase activity during cultured cell differentiation 2239

Hydroxysteroid

sulfotransferase-deficient lesions, development during

hepatocarcinogenesis 2267

Immortilization phenotype

from mouse mammary epithelial cells 25 Immunoaffinity chromatography

aflatoxin M1 in Nepalese sera 1233

Immunoaffinity purification

7-methyldeoxyguanosine quantification 1677

of 3-alkyladenines 199 Immunofluorescence assay

for cyclobutyldithymine dimer quantification in cell cycle

Immunosorbent assay

aflatoxin M₁ in Nepalese sera 1233

In vivo model

of bladder cancer invasion and metastasis 1531

Inhred rat strains

differential responses during liver carcinogenesis 1951

Indole,3-amino-1,4-dimethyl-5H-pyrido-[4,3-b]

and UV-irradiated E.coli DNA 1475

Initiation dose

influence on papilloma growth during two-stage carcinogenesis 1831

Inositol phosphate metabolism

dioxin,2,3,7,8-tetrachlorodibenzo-p- and protein kinase C in rat hepatocytes 2283

Integrin expression

and terminal differentiation from squamous cell carcinoma cell lines 2171

Intercellular communication

and morphological transformation in hamster embryo cells 251 in normal and preneoplastic hepatocytes 2127 inhibition and cytochrome P450 metabolism 2365 inhibition by pyrethroid insecticides 2531 inhibition by tumour promoters in hepatocyte cultures 2377

Interferons

alpha, beta and gamma, co-promoting activities in tumour promotion/initiation 367

Intermediate biomarkers

and colon cancer, influence of chemopreventive agents 699

Intestinal bacteria

haemoglobin adducts and endogenous production of reactive compound 2635

Intestinal microflora

biological activities in mice 869

Invasive tumours

from xenotransplanted cells after in vivo exposure to chemical carcinogens 1789

Iodine deficient diet

induced thyroid lesions 2389

Ionizing radiation

and O6-alkylguanine-DNA-alkyltransferase in mouse tissue 679

enhancement of hepatic neoplasia by hexachlorobenzene 1381 levels and Mn-superoxide dismutase expression 1881

Iron minerals

radical oxidation 41

Iron-deficient

rats, 8-hydroxy-2'-deoxyguanosine in liver DNA 265

Isoenzyme patterns

in nafenopin/phenoarbital-treated liver foci 2407

and p53 mutations in hamster lung tumours 451

K-ras mutations

during azoxymethane-induced colon carcinogenesis 1777 in benzotrichloride-induced lung tumours 1247 in squamous cell carcinomas and N-nitrosobis (2-oxopropyl)amine-

induced adenocarcinomas 1471

abberation induction in skin carcinogenesis 2319

56 kDa proteins

gene regulation patterns during carcinogenesis 335

Keratinocyte

cells, AP1 proteins stability 2447

Ki-ras oncogen

butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1-Ki-ras oncogene in mouse lung tumours 2419

Kidney epithelial cells

butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1- metabolism 1639

Kidney neoplasms

diethylstilbestrol-induced and estrogen/progesterone receptors 1215

Laboratory rodents

diet and carcinogenesis 2205

lacI gene

of E.coli, mutational specificity of

quinoline,2-nitro-3,4-dimethylimidazo[4,5-f] 511

of E.coli, heterocyclic amine-induced mutational specificity 1149

Lead chromate

clastogenesis, inhibition by ascorbate 429

Lead nitrate

and P450 isozymes in rat liver 1091

LEC rats

DNA methyltransferase expression 603

cisplatin-induced, gene specific repair in human cell lines 919

Lipid peroxidation

caused by y-glutamyltranspeptidase glutathione metabolism 183 tumour initiating potential of hydroxynonanal,2,3-epoxy-4-2073

gonadectomy inhibition of 2-acetylaminofluorene 1747

N-acetylbenzidine N'-glucoronidation 2607

tumour promotion by orotic acid in rat 1771

tumours, fluoranthene-induced, in preweanling mice 1871

Liver carcinogen

tamoxifen in rat 315

Liver carcinogenesis

assay, promotive effect of quinoline,2-amino-3-methylimidazo[4,5-f] 2123 assay, promotive effect of quinoxaline,2-amino-3,8-

dimethylimidazo[4,5-f] 2123

differential responses of choline-deficient diet inbred rat strains 1951

ornithine decarboxylase alterations 1077

promoting effect of orotic acid 1701 sex differences at initiation, growth hormone influence 2045

tissue protein turnover 2581

Liver cells

catalase gene expression and methylation 1505

of flounder, ornithine decarboxylase/cell proliferation 399

maturation, antioxidants affecting γ -glutamyltranspeptidase expression 47

Liver cytochrome P450

3-methylcholanthrene-inducible in rats 879

Liver DNA

8-hydroxy-2'-deoxyguanosine in iron-deficient or mangenese- and

copper-deficient rats 265

promutagenic methylation damage in Schistosoma mansoni infected mice

Liver epithelial cell

c-H-ras codon 12 mutation 1061

Liver foci

enzyme altered foci initiation by cyproterone acetate 1229

Liver microsome

benzene and phenol metabolism 2477

CYP1A2 content and Glu-P-1/Trp-P-2 activation 2471

cytochrome P450 and activation of 6-aminochrysene 1271

female predominant cytochrome P4502C12 expression 755

Liver regeneration

orotic acid effect on β 1,4-galactosyltransferase 1095

Liver tissue

from Thailand, aflatoxin B1 metabolism in vitro 2615

Liver tumour

mouse, ciprofibrate-induced, activated protooncogenes 145

N-nitrosamine-induced, ras mutation spectra 1603

Dral/Rsal polymorphism 85

p53 gene and CYP1A1 gene germ line polymorphisms 1085

Lung carcinomas

overexpression of oncoproteins in smokers 1121

Lung subcellular fractions

metabolism of nitrofluoranthenes 1161

Lung tumourigenesis

butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1- inhibition by arylalkynes 1711

oxy radical-promoted, protection by vitamin E 1133

Lung tumours

benzotrichloride-induced, K-ras mutations 1247

fluoranthene-induced, in preweanling mice 1871

hamster, K-ras and p53 mutations 451

mouse, butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1-induced Ki-ras oncogene 2419

N-nitrosamine-induced, ras mutation spectra 1603

p53 mutations 803

Lymphoblasts of Fanconi's anemia patients increased formation

8-hydroxydeoxyguanosine 1115

Lymphocyte DNA

enzymic detection of oxidative base damage 1733

Lymphocytes

DNA strand breakage and DNA adducts in oral cancer paients 2251 quantitative polymerase chain reaction used to measure CYP1A1 expression 2003

seasonal variation of aromatic DNA adducts 2523

Lymphoma strains

sensitivity of DNA topoisomerase inhibitors 1759

Macromolecular interaction

of butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1- in human buccal mucosa 2383

Magnetic field exposure

skin tumour formation in mice 573

Malonaldehyde

DNA adducts and hemoglobin 705

Manunalian cells

genetic consequences of tolerance to methylation DNA damage 2097

Mammary adenocarcinomas

N-methyl-N-nitrosourea-induced, tumour-specific phosphoprotein 1659

Mammary carcinogenesis

of pituitary isografted BALB/c mice, cell proliferation/differentiation 2019

Mammary cell DNA

7,12-dimethylbenz[a]anthracene and garlic 1627

Mammary cells

radiation-induced, promotive effects of diethylstilbestrol 2157

Mammary epithelial cells

and p53 protein 827 mouse, immortilization phenotype 25

Mammary tissue

oncogenes, chemical effects in transgenic mice 29

Mammary tumour incidence

calorie-restricted diets and plasma epithelial levels in

dimethylbenz[a]anthracene-treated rats 1693

Mancozeb

promotes nitrosomethylurea pancreatic hyperplasia in rats 929 Mangenese- and copper-deficient

rats, 8-hydroxy-2'-deoxyguanosine in liver DNA 265

Marmoset monkey

aflatoxin B₁ distribution/metabolism 1

MelOx

molecular dosimetry using serum albumin adducts 191

Mesothelial cells

gap junctional intercellular communication 1597

Metabolic activation

deactivation of arylamine carcinogens by acetyltransferases 1633 of dibenz[a,h]anthracene and bis-dihydrodiol epoxide-DNA adducts 863 of heterocyclic amines and rodent lung cytochrome P450 1751

of 11-trifluoromethyl analogue of cpp-17-one to mutagens 1697

Metabolism

of butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1- in human buccal тисова 2383

of nitrofluoranthenes by lung subcellular fractions 1161

of trans-1,2-dihydro-1,2-dihydroxy-6-aminochrysene 2109

Metabolites

detection in urine by polycyclic aromatic hydrocarbons 1053

Metabolization

of aromatic amine derivatives 1441

Metabolizing enzyme systems

in head/neck squamous cell carcinoma 1279

Methionine-choline-deficient

rats, ethynylestradiol protection against methyl insufficiency 1237

Methyl insufficiency

ethynylestradiol protection in methionine-choline-deficient rats 1237

Methyl methanesulfonate

-induced mutations in Drosophila melanogaster 1585

in DHFR gene and mitochondrial DNA 2105

3-Methyladenine

DNA glycosylase cDNA, mouse, cloning/characterization 175 Methylation

and catalase gene expression in mouse liver cells 1505

Methylation DNA damage

genetic consequences of tolerance in mammalian cells 2097

3-Methylcholanthrene

-inducible liver cytochrome P450 in rats 879

Methylclofenapate

mitogenic effects in rat liver 1451

5-Methylcytosine

effect on DNA guanine methylation by N-methyl-N-nitrosourea 323

7-Methyldeoxyguanosine

quantification using immunoaffinity purification

Methylene chloride

induced lung tumours, p53 mutations 803

-induced tumourigenesis 787

-induced tumours and varying exposure regimens 819 inhalation exposure and DNA synthesis in hepatocytes 811

mutational specificity in E.coli 789 ras activation in exposed mice 795

3-Methylguanine

DNA glycosylase cDNA, mouse, cloning/characterization 175

7-Methylguanine

DNA glycosylase cDNA, mouse, cloning/characterization 175 smoking related - DNA adducts 151

O6-Methylguanine-DNA methyltransferase

depletion by O6-benzylguanine 1057

1-Methylpyrene

-deoxyadenosine adducts induced E. coli mutation 645

6-Methylquinoline

hepatic metabolism 1041

8-Methylquinoline

hepatic metabolism 1041

Micronuclei

abberation induction in skin carcinogenesis 2319

in parenchymal liver cells during hepatocarcinogenesis 2397

Microsomal epoxide hydrolase

induction by thiazole and pyrazine 1665

Microsomal sphingomyelin

accumulation in thioacetamide-injured regenerating rat liver 941

Mirex

characterization of skin tumour promotion 1155

Mitochondrial DNA

and methyl methanesulfonate 2105

N-methylpurines repair of xeroderma pigmentosum complementation

group D cells 913

quantification of oxidative modifications 2309

Mitogenic effects

of methylclofenapate and clofibric acid in rat liver 1451 Mitosis

and acetate, 12-O-tetradecanoylphorbol-13 in Chinese hamster V79 cells

benzo[a]pyrene and benzo[a]pyrene,(±)-trans-7,8-dihydroxy-7,8,dihydro

2115

Mn-Superoxide dismutase

expression and copper/iron levels 1881

Modified DNA HPLC methods for detecting adducts 1049

of 6-nitrosochrysene-produced DNA adducts and hprt mutations 1863

Molecular dosimetry of MeIQx using serum albumin adducts 191

Monoclonal antibodies

deoxyguanosine-specific development 113

of nuclear fluorescence, quantification of O-alkylation DNA products 1907

Monoterpenes

effects on phase II hepatic enzymes 1221

Morphological transformation

and intercellular communication in hamster embryo cells 251 effects of phorbol esters 73

vanadium(V)-induced in BALB/3T3 cells 2565 Mouse endometrium

stromal cells and cytochrome P450 2013

Mouse fibroblast cells

8-hydroxydeoxyguanosine inhibition by curcumin 709

Mouse fibroblasts

nitrogen oxide inhibitors block neoplastic transformation 1555

Mouse liver

safrole-DNA adducts, formation/persistence 1517

Mouse liver cells

in culture and antioxidant enzyme 1457

Mouse tissue O⁶-alkylguanine-DNA-alkyltransferase and ionizing radiation 679

Multi-organ model carcinogenesis modification by antioxidants 2359

Murine keratinocytes

organic peroxide-treated and free radical formation 1615

Murine papilloma cells

grafted, tumour formation inhibition by staurosporine 205

Murine skin

acetate, 12-O-tetradecanoylphorbol-13-mediated co-promotion 411 free radical formation in organic peroxide tumour promoters 1499

Mutagenesis

N-acetoxy-N-acetyl-2-aminofluorene in human c-hprt 2245 and antioxidant enzyme-deficient E.coli K-12 mutants 237 N-nitroso-induced, cytosol effects in Salmonella 1013 of H-ras codons by N-ethyl-N-nitrosourea 2193

Rat4 cell and Ob-alkylguanine-DNA alkyltransferase 593

Mutagenesis assays

mutagenic activity of N-nitrosobis(2-oxopropyl)amine and Nnitrosobis(2-hydroxypropyl)amine 1621

Mutagenic activation

of PhIP correlates with human hepatic content 585 species differences 61

Mutagenic activity

of N-nitrosobis(2-oxopropyl) amine and N-nitrosobis(2-hydroxypropyl) amine in mutagenesis assays 1621

Mutagenic compounds

and glutathione S-transferase expressing S.typhimurium 1371

Mutagenic potential

and O4-alkylthymines 1915

Mutagenicity

of aflatoxin B₁ catalyzed by rabbit lung cells 1429

of dog bile with experimental model of pancreaticobiliary duct 743 of vinyl carbamate epoxide 450

sulfotransferase-mediated, 1-hydroxymethylpyrene and 4Hcyclopenta[def]chrysen-4-ol 599

Mutagens

in excised lung 1933

metabolic activation of 11-trifluoromethyl analogue of cpp-17-one 1697

Mutation specificity

by N-methyl-N-nitrosourea in cDNA of hprt gene 725

Mutational hot spot

N-hydroxy-aminofluorene-induced in Chinese hamster ovary cells 2181 Mutational specificity

heterocyclic amine-induced in E.coli LacZ gene 1149

of benzo[a]pyrene (+)-anti-diol epoxide of supF gene in E.coli plasmid

of methylene chloride in E.coli 789

of quinoline,2-nitro-3,4-dimethylimidazo[4,5-f] in E. coli lacl gene 511

Mutations

DNA adducts and cancer:commentary 2007

myc genes

tumour induction in neural grafts exposed to N-ethyl-N-nitrosourea 1715 myo-inositol

chemopreventive effects on benzo[a]pyrene-induced neoplasia 1975

N-Acetylation

and bladder cancer in benzidine-exposed workers 675

N-Acetylbenzidine

N'-glucoronidation by liver 2607

N-Acetyltransferase

and a African-Americans common slow-acetylator allele 1689

N-Butyl-N-(4-hydroxybutyl)nitrosamine

-induced bladder cancer, chemoprevention by piroxicam 1487

N-Ethyl-N-nitrosourea

exposed neural grafts, tumour induction and myc genes 1715

N-Hydroxy-2-acetylaminofluorenes

bioactivation by N,O-acetyltransferase 1651

N-Hydroxy-N-2-fluorenylacetamide

metabolism by rat peritoneal neutrophils 341

N-Methyl-N-nitrosourea

-induced mammary adenocarcinomas, tumour-specific phosphoprotein 1659

5-methylcytosine effect on DNA guanine methylation 323

mutation specificity in cDNA of hprt gene 725

N-Methyl-N'-nitro-N-nitrosoguanidine

-induced gastric cancer in ferrets 1957

-induced upper gastrointestinal tract carcinogenesis 1561

and 5-aza-2'-deoxycytidine, inactivation of tumour suppressor function in hamster cells 285

penetration into gastric mucosa proliferative cells 887

-treated DNA, via drinking water, in upper gastrointestinal tract 1991 -treated DNA in upper gastrointestinal tract 1981

N-Methylpurines

repair in mitochondrial DNA of xeroderma pigmentosum complementation group D cells 913

N-Nitrosamine

-induced liver tumours and lung tumours, ras mutation spectra 1603

N-Nitrosation

in gastric juice and an analytical method 2547

N-Nitroso

-induced mutagenesis in Salmonella, cytosol effects 1013

N-Nitrosobis(2-oxopropyl)amine

-induced adenocarcinomas and K-ras mutations 1471

mutagenic activity in mutagenesis assays 1621

N-Nitrosobis(2-hydroxypropyl)amine mutagenic activity in mutagenesis assays 1621

N-Nitrosodiethylamine

-induced carcinogenesis, protection by green tea 849

N-Nitrosomethylamylamine

inhibition by phenylethyl/phenylhexyl isothiocyanate 749

N-Nitrosomorpholine

induced somatostatin inhibition of hepatocarcinogenesis 2603

N'-Glocoronidation

of N-acetylbenzidine by liver 2607

N,O-Acetyltransferas

bioactivation of N-hydroxy-2-acetylaminofluorenes 1651

-inducible enzymes and DNA synthesis in rat liver foci 1007 -treated liver foci, glutathione S-transferase isoenzyme patterns 2407 -treated preneoplastic liver foci, peroxisomal enzyme induction from DNA synthesis 2435

Nagase analbuminemic

rats, hepatocyte phenotypes comparison 1313

Neoplasia

benzo[a]pyrene-induced, myo-inositol chemopreventive effects 1975

Neoplastic conversion

in rat liver by low doses of diethylnitrosamine 2149

Neoplastic transformation

in mouse fibroblasts, inhibition by nitrogen oxide 1555

inhibited by C22 carotenoid 1001

of pancreatic duct epithelial cells by azaserine and streptozotocin 1027

Nepalese sera

aflatoxin M1 quantified by immunoaffinity chromatography and immunosorbent assay 1233

Nephrotoxicity

of cis-diamminedichloroplatinum(II), para-aminobenzoic acid suppression 2597

Neural grafts

tumour induction exposed to N-ethyl-N-nitrosourea and myc genes 1715

transformation of human osteosarcoma cells 947

nickel(II)

2'-deoxyguanosine oxidation with hydrogen peroxide 417

Nicotine nitrosation

butyric acid as monitor in vivo 1409

Nitric oxide

and nitrosamine synthesis by woodchuck hepatocytes 1609

induced mutations in supF gene 1251

synthase, endogenous nitrosation in rat 7

3-Nitrobenzo[a]pyrene

formation of benzo[a]pyrene,6-(deoxyguanosin-N²-yl)-3-amino- 1065

Nitroffuoranthene

metabolism by lung subcellular fractions 1161

2-Nitrofluorene

initiating capacity in two-stage carcinogenesis 1723 preneoplastic lesions and DNA adduct formation 2629

Nitrogen

/quinacrine mustard, DNA binding of transcription factors 1963

Nitrogen oxide

inhibitors block neoplastic transformation in mouse fibroblasts 1555 4-Nitroquinoline-1-oxide

inhibition of rat tongue carcinogenesis by plant phenolics 1321 Nitrosamine

-induced pancreatic cancer, effect of streptozocin diabetes on

development 961 -induced pancreatic cancer cell line, scatter factor-like activity 259 and nitric oxide synthesis by woodchuck hepatocytes 1609 pancreas specific, metabolism/activation by ductal cells 1705

tumour initiation/promotion 1545 6-nitrosochrysene

-produced DNA adducts and hprt mutations, molecular analysis 1863

Nitrosodiethylamine

tumour induction time in diverse species 2373

Nitrosomethylurea

co-carcinogenesis with human papillomavirus 18 329 pancreatic hyperplasia, mancozeb promoting effects in rats 929

Nitrosoureas

tauromustine-related, denitrosation by glutathione transferases 1143 Non-radioactive technique

for comparison of sequence selectivity and alkylating agents 155

Nonhuman primates

pyridine,2-amino-1-methyl-6-phenylimidazo[4,5-b] metabolism 2517 Nuclear fluorescence

monoclonal antibodies, quantification of O-alkylation DNA products 1907

Nuclearity of rat hepatocytes following compensatory regeneration 1825

Nucleic acid

-induced formation of pyridine, 2-amino-1-methyl-6-phenylimidazo[4,5-b]

Nucleic acid methylation

reversibility of effects in rat liver by dietary methyl deficiency 551

Nucleotide excision repair

and DNA topoisomerase inhibitors 2341

06-Alkylguanine-DNA alkyltransferase

and ionizing radiation in mouse tissue 679

and Rat4 cell mutagenesis 593

O⁶-Alkylguanine-DNA alkyltransferase gene cell type-specific expression in human liver tissues 737

O - Methylguanine-DNA methyltransferase

overexpression in transgenic mice 1537 proficient human cell line and alkylating agents 1671

Oesophageal cancer

and glutathione S-transferase 1377

Oesophageal tumour development

ethanol enhancing effect by diethylnitrosamine initiation 37

Oltipraz

and aflatoxin B₁-induced preneoplastic foci 2423

Oncogene

-induced changes and gap junctional intercellular communication 435

Oncogene transformation

influence of tumour suppressor gene 1209

Oncogenes

in mammary tissue, chemical effects in transgenic mice 29

Oncogenic transformation

radon and cigarette smoke 497

Oncoproteins

overexpression in lung carcinomas of smokers 1121

Oral cancer paients

DNA strand breakage and DNA adducts in lymphocytes 2251

Organic peroxide

-treated murine keratinocytes and free radical formation 1615 tumour promoters and free radical formation in murine skin 1499

Ornithine decarboxylase

alterations during liver carcinogenesis 1077

and cell proliferation in flounder liver cells 399

modulating effect of dietary fat during colon carcinogenesis 1327

Ornithine decarboxylase mRNA

curcumin and 12-O-tetradecanoylphorbol-13-acetate-induced increase 293

Orotic acid

exposed rat liver, hepatocellular carcinoma development 2527 effect on \$1,4-galactosyltransferase during liver regeneration 1095 effect on in vivo DNA synthesis in rat hepatocytes 907

liver tumour promotion in rat 1771

long-term feeding, enzyme-altered hepatic foci and nodules 1901

promoting effect on liver carcinogenesis 1701

Osteosarcoma cells

c-fos overexpression and recombination frequency 925

transformation by nickel sulfate 947

Ovary cells

UV repair deficient, cisplatin sensitivity/resistance 2177

Overexpression

of \hat{O}^6 -methylguanine-DNA methyltransferase in transgenic mice 1537

Oxidation

of 2'-deoxyguanosine with hydrogen peroxide in presence of nickel(II)

Oxidative base damage

enzymic detection in lymphocyte DNA 1733

Oxidative events

DNA damage and tumour promotion sensitivity in mice 841 promoting activity of phorbol-ester type tumour promoters 1195

Oxidative modifications

quantification in mitochondrial DNA 2309

Oxidative stress

induced by redox-enzyme modulation on rat heptocarcinogenesis 95

Oxy radical

-promoted lung tumourigenesis, by vitamin E 1133

Oxygen radical formation

during prostaglandin H synthase biotransformation of butylated hydroxyanisole 347

P-glycoprotein

expression in hepatocytes in primary culture 781

P450 isozymes

and lead nitrate in rat liver 1091

p53

and K-ras mutations in hamster lung tumours 451 SV40 T antigen binding in uroepithelial cells 2297

P53 allelic loss

and 1,2-dimethylhydrazine-induced colon tumours 1483

P53 gene

aberration in human hepatocellular carcinoma in China

germ line polymorphisms and lung cancer 1085

P53 gene mutation

and hepatitis B viral DNA sequences in human liver 987

P53 mutations

and epithelial cell lines 833

in hepatocellular carcinomas induced by choline-devoid diet 503

in methylene chloride-induced lung tumours 803

urothelial carcinomas and phenacetin 2119

P53 protein

and mammary epithelial cells 827

expression/cellular localization in pancreatic cancer cell lines 2589

Pancreas

specific nitrosamines, metabolism/activation by ductal cells 1705

Pancreatic cancer

annexin II expression 2575

c-k-ras evaluation from transgenic mice 2651

cell line, nitrosamine-induced, scatter factor-like activity 259

cell lines, p53 protein expression/cellular localization 2589

nitrosamine-induced, effect of streptozocin diabetes 961 of hamster, GalNAc transferase activity 1349

Pancreatic duct

epithelial cells, neoplastic transformation by azaserine and streptozotocin 1027

Pancreatic growth

effects of high fat diet/cholecystokinin receptor blockade in hamster 1021

Pancreatic hyperplasia

promoting effects of mancozeb in rats 929

Pancreaticobiliary duct

experimental model, mutagenicity of dog bile 743

Papilloma

formation, differential effects of dietary β-carotene 713 Papilloma growth

initiation dose influence during two-stage carcinogenesis 1831 Papilloma latency time

DNA adducts and cell proliferation following

7,12-dimethylbenz[a]anthracene/12-O-tetradecanoylphorbol-13-acetate 1285

Para-aminobenzoic acid

suppression of cis-diamminedichloroplatinum(II) nephrotoxicity 2597

Parenchymal liver cells

micronuclei during hepatocarcinogenesis 2397

Parkinson's disease

potential role of dopamine-DNA adducts 1241 Partial hepatectomy

2-aminofluorene and hepatic DNA adducts 2427 Patas monkey

butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1- metabolism 229 Pepsinogen

DNA methylation during glandular stomach carcinogenesis 1415

Peroxidase activation

of hydroquinone, formation of benzene-DNA adducts 2329 Peroxisomal enzyme induction

from DNA synthesis in nafenopin-treated preneoplastic liver foci 2435

Peroxisomal enzymes

in hepatic preneoplastic lesions: glutathione S-transferase P and enoyl CoA hydratase expression 393

Peroxisome proliferator

cell transformation, chromosome aberrations and peroxisome proliferation 611 exposure, 8-hydroxydeoxyguanosine in hepatic DNA 2495

Phase II enzymes elevation by anticarcinogenic inducers 2441

Phase II hepatic enzymes

effects of monoterpenes 1221

Phenacetin

p53 mutations in urothelial carcinomas 2119

Phenobarbital

-induced alterations in hepatic antioxidant functions 1225 DNA synthesis inhibition 159

promotion and diethylnitrosamine initiation comparison with cell proliferation 299 -treated liver foci, glutathione S-transferase isoenzyme patterns 2407

metabolism by liver microsomes 2477

Phenotypic transformation

induced by platelet activating factor of rat embryo cells 1289

Phenylethyl

inhibition by N-nitrosomethylamylamine 749

Phenylhexyl isothiocyanate

inhibition by phenylethyl 749

Phenytoin

tumour promotion in mouse liver 2227

PhIP

mutagenic activation correlates with human hepatic content 585

effects on gap junctional intercellular communication/morphological transformation/epidermal growth 73

Phorbol-ester type

tumour promoters, oxidative events and DNA oxidation, promoting activity 1195

Phosphatase inhibitors

in hamster fibroblasts 2257

Phosphoprotein

in N-methyl-N-nitrosourea-induced mammary adenocarcinomas 1659

chemoprevention of N-butyl-N-(4-hydroxybutyl)nitrosamine-induced bladder cancer 1487

Pituitary adenoma

patients, polymerase chain reaction studies on GSTM1 0 genotype frequency 563

Pituitary isografted

BALB/c mice, cell proliferation/differentiation in mammary

carcinogenesis 2019

Placentae benzo[a]pyrene-induced DNA adducts 1805

Plant phenolics

inhibition of 4-nitroquinoline-1-oxide rat tongue carcinogenesis 1321

Plasma epithelial levels

calorie-restricted diets and mammary tumour incidence in dimethylbenz[a]anthracene-treated rats 1693

Platelet activating factor

induces phenotypic transformation of rat embryo cells 1289

of rat hepatocytes following compensatory regeneration 1825

Poly(ADP-ribose) levels in rats and diethylnitrosamine administration in vivo 2513

Poly(ADP-ribosyl)ation

increased by cisplatin treatment in intact cells 559

poly(ADP-ribosylation)

chemotherapeutic drug effect in HeLa cells 2559

Poly-D-lysine

and bleomycin genotoxicity in CHO cells 2543

Polychlorinated biphenyls

affinities for aryl hydrocarbon receptor 2063

tumour initiation/promotion 1545 Polycyclic aromatic hydrocarbons

cyclopenta-fused genotoxic effects 1125

detection of metabolites in urine 1053

DNA adducts recoveries in 32P-postlabelling assay 2463

in urine from coke-oven workers with a radioimmunoassay 307

of coal tar, covalent binding-DNA 135

Polymerase chain reaction

studies on GSTM1 0 genotype frequency in patients with pituitary adenomas 563

to measure CYP1A1 expression in lymphocytes 2003

Polyphenolic fraction

from green tea, skin tumour promotion inhibition 2643

Post-mortem stability

of benzo[a]pyrene diol epoxide-DNA adducts 2185

32P-Postlabelled

DNA adducts, optimization of high performance liquid chromatography 1343

32P-postlabelling analysis

benzo[a]pyrene-DNA adducts and DNA synthesis in hamster tracheal epithelium 463

covalent binding of benzo[ghi]perylene-DNA adducts 127

detection of 7-alkyldeoxyguanosine adducts 545 of DNA adducts of styrene-exposed workers 2059

of benzo[a]pyrene-DNA adducts formed in vitro 1945

of 4,4'-methylene bis(2-chloroaniline) DNA adducts in dog 2143 of heterocyclic amine DNA adducts in hepatic DNA 1389

³²P-postlabelling assay

recoveries of polycyclic aromatic hydrocarbons DNA adducts 2463

pRB

SV40 T antigen binding in uroepithelial cells 2297

Preneoplastic foci

aflatoxin B₁-induced and oltipraz 2423

Preneoplastic hepatocytes

intercellular communication 2127

Preneoplastic lesions

and DNA adduct formation of 2-nitrofluorene and 2,7-dinitrofluorene 2629

promotion by unleaded gasoline vapor in female mouse liver 2137

Preneoplastic liver foci

nafenopin-treated, peroxisomal enzyme induction from DNA synthesis 2435

Preweanling mice

fluoranthene-induced lung/liver tumours 1871

Primary culture

P-glycoprotein expression in hepatocytes 781

Progesterone

receptors and diethylstilbestrol-induced kidney neoplasms 1215

Proliferating cell nuclear antigen

and genotoxic agent-induced DNA damage in fibroblasts 2569

Proliferative cells

of gastric mucosa, penetration of N-methyl-N'-nitro-N-nitrosoguanidine 887

Promoter-exposed hepatocytes

response to growth factors in type I collagen gels

Promutagenic methylation damage

in liver DNA of Schistosoma mansoni infected mice 653

Prostaglandin H synthase

-mediated metabolism and butylated hydroxyanisole carcinogenicity 1297 oxygen radical formation during biotransformation of butylated hydroxyanisole 347

Protein kinase C

dioxin,2,3,7,8-tetrachlorodibenzo-p- and inositol phosphate metabolism in rat hepatocytes 2283

12-O-tetradecanoyl-phorbol-13-acetate-induced and curcumin 857

Proto-oncogene activation in trout embryos by 7,12-dimethylbenz[a]anthracene 629

Pyrazine

induction of microsomal epoxide hydrolase 1665

Pyrethroid insecticides

altered hepatic foci enhancement and intercellular communication inhibition 2531

Pyridine,2-amino-1-methyl-6-phenylimidazo[4,5-b]-

carcinogenicity, dose dependence in rats 2553 detection in beer/wine 899

metabolism in nonhuman primates 2517 nucleic acid-induced formation 903

Pytic acid

growth inhibition/differentiation of HT-29 cells 1815

Quantitative analysis

aflatoxin-albumin adducts 1203

Quinoline,2-amino-3-methylimidazo[4,5-f]

-induced Zymbal's gland tumours and ras gene mutations 1355 promotive effect in liver carcinogenesis assay 2123

Quinoline,2-nitro-3,4-dimethylimidazo[4,5-f] mutational specificity in E.coli lacl gene 511

Quinones

inhibition of DNA adduct formation 1137

Quinoxaline, 2-amino-3, 8-dimethylimidazo [4,5-f]

activated by rat pleural cells 2457

DNA adducts 2165

promotive effect in liver carcinogenesis assay 2123

Rabbit lung cells

catalyzed aflatoxin B₁, DNA binding/mutagenicity 1429

Rudiation

-induced mammary cells, promotive effects of diethylstilbestrol 2157

Radical oxidation

by iron minerals 41

Radioimmunoassay

coke-oven workers, polycyclic aromatic hydrocarbons in urine 307

Radon

cigarette smoke and oncogenic transformation 497

Rainbow trout

biochemical/histochemical properties of hepatic tumours 211

ras activation

in methylene chloride-exposed mice 795

ras gene mutations

in quinoline,2-amino-3-methylimidazo[4,5-f]-induced Zymbal's gland tumours 1355

ras mutation spectra

in N-nitrosamine-induced liver tumours and lung tumours 1603

ras mutations

in benzo[a]pyrene-initiated skin papillomas 2289

Rat cDNA

-transfected kidney epithelial cells,

butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1- metabolism 1639

Rat colon

dietary calcium and 1,2-dimethylhydrazine 1175

Rat embryo cells

platelet activating factor induces phenotypic transformation 1289

Rat hepatocytes

cyproterone acetate generates DNA adducts 423

dioxin,2,3,7,8-tetrachlorodibenzo-p-, protein kinase C and inositol

phosphate metabolism 2283

effects of benzyl isothiocyanate/benzyl thiocyanate on DNA synthesis 281

orotic acid effect on in vivo DNA synthesis 907

ploidy and nuclearity following compensatory regeneration 1825

Rat heptocarcinogenesis

oxidative stress induced by redox-enzyme modulation 95

Rat liver

ADP-ribose polymers during 2-acetylaminofluorene-induced

hepatocarcinogenesis 1435

mitogenic effects of methylclofenapate and clofibric acid 1451

orotic acid-exposed, hepatocellular carcinoma development 2527

reversibility of effects in nucleic acid methylation/gene expression by dietary methyl deficiency 551

thioacetamide-injured, microsomal sphingomyelin accumulation 941

Rat liver foci

nafenopin-inducible enzymes and DNA synthesis 1007 Rat peritoneal

N-hydroxy-N-2-fluorenylacetamide metabolism 341

Rat pleural cells

activation by quinoxaline,2-amino-3,8-dimethylimidazo[4,5-f] 2457

Rat tongue carcinogenesis

inhibition by plant phenolics 1321

Rat urine guanine adducts and benzene exposure 245

mutagenesis and Ob-alkylguanine-DNA alkyltransferase 593

Reactive compound

endogenous production, intestinal bacteria and haemoglobin adducts 2635

RecA protein

association kinetics to DNA by benzo[a]pyrene 311

Recombination frequency

and c-fos overexpression in human osteosarcoma cells 925

Redox-enzyme modulation

induced oxidative stress on rat hepatocarcinogenesis 95

Renal tubular carcinogenesis

ferric nitrilotriacetate and DNA strand breaks production 223

Retinoic acid

dietary, skin papilloma and carcinoma formation in female SENCAR mice 539

Riboflavio

and 8-hydroxyguanine in DNA 1069

Ribosomal RNA genes

repair in hamster cells following UV irradiation 1591

mRNA

and cholecystokinin-A/cholecystokinin-B receptors in pancreatic

Rodent lung

cytochrome P450 and metabolic activation of heterocyclic amines 1751

Ryal polymorphism in CYP2E1 gene/lung cancer 85

S.typhimurium

expressing glutathione S-transferase and mutagenic compounds 1371

S2 gene

expression, activation in hamster carcinogenesis model 163

Safrole

-DNA adducts, formation/persistence in mouse liver 1517

-induced DNA damage, altered fidelity of T4 polynucleotide kinase 1523

Salmonella

cytosol, effects on N-nitroso-induced mutagenesis 1013

Scatter factor-like activity

nitrosamine-induced pancreatic cancer cell line 259

Schistosoma mansoni

infected mice, promutagenic methylation damage in liver DNA 653

Seasonal variation

of aromatic DNA adducts in lymphocytes/granulocytes 2523

Selection method

for SupF gene mutations carried by shuttle vector plasmids 303 Selenium

difluoromethylornithine and colon carcinogenesis in fibre-free diet 2335

labeled proteins and chemoprevention 1895

selenocyanate, 1,4-phenylenebis (methylene) tumour inhibition of butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1-

1111

Sequence selectivity non-radioactive technique for comparison with alkylating agents 155

Serum albumin

adducts, MeIQx molecular dosimetry 191

Serum-free media

differential growth control of Syrian hamster embryo cells 579

Sex differences

at initiation of rat liver carcinogenesis growth hormone influence 2045

Shuttle vector plasmids

-carried SupF gene mutations:selection method 303

Simian virus 40

temperature sensitive, immortalization of endometrial stromal cells 993

Skin

tumour promotion by mirex 1155

Skin carcinogenesis

in transgenic mice carrying v-Ha-ras gene 1335

micronuclei/karotype abberation induction 2319

Skin fibroblasts

thiol status and cytopathological effects of acrolein 975

Skin papilloma

benzo[a]pyrene-initiated, ras mutations 2289

dietary retinoic acid and carcinoma formation in female SENCAR mice

Skin tumour promotion

inhibition by polyphenolic fraction from green tea 2643

Skin tumourigenes

enhancement by topical pretreatment with epidermal pentapeptide 2537

Skin tumour formation

in mice with 50 Hz magnetic field exposure 573

Skin tumour promotion

chrysarobin inhibition by antioxidants 2507

Skin wounding

C57BL/6 mice resistant to tumour promotion 319

Slow-acetylator allele

common in African-Americans and N-acetyltransferase 1689

Smokers

overexpression of oncoproteins in lung carcinomas 1121

Sodium butyrate

in rat liver nonparenchymal epithelial cells 457

Sodium salts

promotion of succinic acid in bladder carcinogenesis 2277

Somatostatin

inhibition of hepatocarcinogenesis by N-nitrosomorpholine 2603

Species differences

in 1,3-butadiene metabolism 619

in 2-cyanoethylene oxide hydrolysis 685

Sprague - Dawley

rats, hepatocyte phenotypes comparison 1313

Squamous cell carcinoma

cell lines, integrin expression and terminal differentiation 2171

chemical induction in FVB/N mice skin 2353

in lung, GSTM1 null genotype potential risk modifier 1479

K-ras mutations 1471

xenobiotic-metabolizing enzyme systems in head/neck 1279

Staurosporine

tumour formation inhibition on grafted murine papilloma cells 205

Stomach epithelium

genotoxic activity of 1-chloromethylpyrene 637

Streptozocin diabetes

effect on development of nitrosamine-induced pancreatic cancer 961

Streptozotocin

neoplastic transformation of pancreatic duct epithelial cells 1027

Stromal cells

mouse endometrium and cytochrome P450 2013

and DNA adduct formation 355

Styrene-exposed workers 32P-postlabelling of DNA adducts 2059

Succinic acid

promotion by succinic acid in bladder carcinogenesis 2277

Sucrose enhancement of colon carcinogenesis in mice 777

Sulfotransferase

-deficient lesions, development during hepatocarcinogenesis 2267

mutational specificity of benzo[a]pyrene (+)-anti-diol epoxide in E. coli plasmid 373

supF gene

mutations carried by shuttle vector plasmids:selection method 303

mutations induced by nitric oxide 1251

SV40 T antigen

binding to pRB and p53 in uroepithelial cells 2297

transformation of diploid fibroblasts 1511

SV40 transformation

catalase activity and 11p chromsome arm of human fibroblasts 1569 of human fibroblasts, glutathione cycle enzymes alterations 21

Syrian hamster embryo heterologous gap junctional intercellular communication in cell colonies

2085 T4 polynucleotide kinase

altered fidelity by safrole-induced DNA damage 1523

Tamoxifen

a strong liver carcinogen in rat 315

Tauromustine

denitrosation by glutathione transferases 1143

Teleocidin

and tumour formation 719

Temporal dissociation

between eosinophilic foci development and cell proliferation 607

Terminal differentiation

and integrin expression from squamous cell carcinoma cell lines 2171

Tetraamide complex

-induced chromium(V) DNA damage in vitro 1875

12-O-Tetradecanoylphorbol-13-acetate

-induced gap junctional intercellular communication regulation 1851 -induced increase in ornithine decarboxylase mRNA and curcumin 293

-induced protein kinase C and curcumin 857 and electromagnetic fields in tumour promotion 955

and tumour formation 719

dermal application, DNA adducts cell proliferation and papilloma latency time 1285

Thermolyzed sucrose

initiation/promotion of colonic aberrant crypt foci by 5-hydroxymethyl-2-furaldehyde 773

Thiazole

induction of microsomal epoxide hydrolase 1665

Thioacetamide

-injured regenerating rat liver, microsomal sphingomyelin accumulation 941

Thiol status

of acrolein in skin fibroblasts 975

Thymidine glycol

in urine, DNA oxidative damage 1359

Thymine glycol

in urine, DNA oxidative damage 1359

Thyroid lesions

N-bis(2-hydroxypropyl)nitrosamine and iodine deficient diet induced 2389

Tissue protein

turnover during liver carcinogenesis 2581

32P-TLC

analysis of DNA adduct formation 53

O-Tolyl phosphates

and their metabolites and DNA adduct formation 2039

Topical pretreatment

of skin tumourigenesis with epidermal pentapeptide 2537

Topoisomerase

role in DNA repair 1841

TPA-induced

tumour promotion inhibited by FK506 67

trans-1,2-dihydro-1,2-dihydroxy-6-aminochrysene

metabolism and adduct formation 2109

Transcription factors

DNA binding by nitrogen and quinacrine mustard 1963

Transcriptional activity

and human heme oxygenase gene 761

Transforming growth factor

 α and β production during tumour progression 981

Transforming growth factor β

DNA synthesis inhibition 159

Transgenic cell lines

cytochrome P450 expressing,

butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1- transformation 1421

Transgenic Drosophila

carrying cytochrome P4501A1 1683

Transgenic mice

c-k-ras evaluation in pancreatic cancer 2651

carrying v-Ha-ras gene, skin carcinogenesis 1335

chemical effects in mammary tissue oncogenes 29

O⁶-methylguanine-DNA methyltransferase overexpression 1537

Trichothiodystrophy

associated excision repair defect and genetic heterogeneity 1101

Trichothiodystrophy cells

UV-induced mutations and cancer prone xeroderma pigmentosum 1255

11-Trifluoromethyl analogue

metabolic activation of cpp-17-one to mutagens 1697 Tris(2,3-dibromopropyl)phosphate

mutagenicity in glutathione S-transferases 2303

Trout embryos

carcinogenicity and proto-oncogene activation by

7,12-dimethylbenz[a]anthracene 629

Trp-P-2

activation in liver microsomes by CYP1A2 content 2471

Tumeric

and benzo[a]pyrene-DNA adducts 493

induction time in nitrosodiethylamine-treated diverse species 2373 initiation/promotion by nitrosamines and polychlorinated biphenyls 1545

Tumour formation

by 12-O-tetradecanoylphorbol-13-acetate and teleocidin 719 inhibition by staurosporine on grafted murine papilloma cells 205

Tumour induction

in neural grafts exposed to N-ethyl-N-nitrosourea and myc genes 1715

Tumour inhibition of butanone,4-(methylnitrosamino)-1-(3-pyridyl)-1- by selenocyanate, 1,4-phenylenebis (methylene 1111

Tumour initiating potential

of hydroxynonanal,2,3-epoxy-4- to lipid peroxidation 2073

Tumour initiation

co-promoting activities of alpha, beta and gamma interferons 367 effects of high fat diet/cholecystokinin receptor blockade in hamster 1021

Tumour progression

transforming growth factor α and β production 981

Tumour promoters

detection by two test systems 1573

inhibition of intercellular communication in hepatocyte cultures

organic peroxide and free radical formation in murine skin

phorbol-ester type, oxidative events and DNA oxidation, promoting activity 1195

vitamin E in mouse skin 659

Tumour promotion

by fecapentaene-12 in colon carcinogenesis model 1261

by phenytoin in mouse liver 2227

C57BL/6 mice resistance by skin wounding 319

co-promoting activities of alpha, beta and gamma interferons 367 liver, by orotic acid in rat 1771

of skin by mirex 1155

sensitivity, DNA damage and oxidative events in mice 841

12-O-tetradecanoylphorbol-13-acetate and electromagnetic fields 955 TPA-induced, inhibited by FK506 67

Tumour suppressor function

inactivation in hamster cells by N-methyl-N'-nitro-N-nitrosoguanidine and 5-aza-2'-deoxycy 285

Tumour suppressor gene

in bronchial epithelial cells, radiation-induced deletion of chromosomal regions 1181

influence on oncogene transformation 1209 **Tumourigenesis**

methylene chloride-induced 787

Tumourigenicity

of dibenzo[a,l]pyrene versus 7,12-dimethylbenz[a]anthracene and benzo[a]pyrene 875

suppressed by gap junction protein gene 1073

Two test systems

for tumour promoter detection and Epstein-Barr virus induction 1573

Two-stage carcinogenesis

initiating capacity of 2-nitrofluorene 1723

initiation dose influence on papilloma growth 1831

Type I collagen gels

promoter-exposed hepatocytes response to growth factors 731

Tyrosine phosphorylation

modulated by exogenous phosphotyrosine 269

UDP-glucoronosyltransferases

cDNA expressed, glucuronidation of carcinogen metabolites 2639

Ultraviolet

-induced DNA damage 2271

Unleaded gasoline vapor

preneoplastic lesions promotion in female mouse liver 2137

Upper gastrointestinal tract

N-methyl-N'-nitro-N-nitrosoguanidine-treated DNA 1981,1991 N-methyl-N'-nitro-N-nitrosoguanidine-induced carcinogenesis 1561 Urine

from coke-oven workers with a radioimmunoassay, polycyclic aromatic hydrocarbons 307

Uroepithelial cells

SV40 T antigen binding to pRB and p53 2297

Urothelial carcinomas

p53 mutations and phenacetin 2119

UV repair deficient

ovary cells, cisplatin sensitivity/resistance 2177

UV-induced mutations

in trichothiodystrophy cells and cancer prone xeroderma pigmentosum

UV-irradiated E.coli

DNA and indole,3-amino-1,4-dimethyl-5H-pyrido-[4,3-b] 1475

V-Ha-ras gene

skin carcinogenesis in transgenic mice 1335

V-raf oncogene

in rat hepatocyte cell line 669

V79 cells

acetate, 12-O-tetradecanoylphorbol-13 and mitosis in Chinese hamster 531 effect of ascorbate/5-aminosalicyclic acid on 8-hydroxydeoxyguanosine 2431

Vanadium(V)

-induced cytotoxicity/morphological transformation in BALB/3T3 cells 2565

Varying exposure regimens

and methylene chloride-induced tumours 819

Vinyl carbamate epoxide

electrophilicity, mutagenicity and carcinogenicity 450

complete tumour promoter in mouse skin 659

protection against oxy radical-promoted lung tumourigenesis 1133

Wine

pyridine,2-amino-1-methyl-6-phenylimidazo[4,5-b] detection

Woodchuck hepatocytes

nitric oxide and nitrosamine synthesis 1609

metabolizing enzyme systems in head/neck squamous cell carcinoma 1279

Xenotransplanted cells

invasive tumours after in vivo exposure to chemical carcinogens

Xeroderma pigmentosum

and UV-induced mutations trichothiodystrophy cells 1255 complementation group D cells, N-methylpurines repair in mitochondrial **DNA 913**

Zymbal's gland tumours

quinoline,2-amino-3-methylimidazo[4,5-f]-induced and ras gene mutations 1355

